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HASAC10	9546	968746	AC007677	42505	1-477
HASAC10	9546	968746	AC007677	42506	1-1410

[052] Table 1B summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

## **TABLE 2**

Clone ID NO:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HAMHB21	961376	11	HMMER 2.1.1	PFAM: RhoGAP domain	PF00620	100	497	916
HBDAC79	935414	26	HMMER 2.1.1	PFAM: Acyl-CoA dehydrogenase	PF00441	102.6	94	342
			blastx.14	(AL021958) fadE9 [Mycobacterium tuberculosis]	gi 2911026 emb CAA 17519.1	62% 51% 64% 35%	94 250 348 6	255 384 422 89
HBJAG72	722723	32	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.32	83	115
HBJGT92	919507	107	HMMER 1.8	PFAM: Bacterial mut protein	PF00293	7.68	377	436
HBJIY20	669519	141	HMMER 2.1.1	PFAM: Orn/Lys/Arg decarboxylase	PF01276	53.1	49	162
HBMBU24	677240	234	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	7.72	139	192
HBMBZ71	880580	238	HMMER 1.8	PFAM: von Willebrand factor type D domain	PF00094	26.52	200	526
HBMDC16	888206	258	blastx.2	Butyrophilin-like protein BUTR-1.	sp AAF72554 AAF72 554	50%	19	315
HBMUO90	928078	294	blastx.14	Zfp61p [Mus musculus]	gi 887887 gb AAC52 290.1	84% 53%	24 154	119 243
HBMXE31	573323	317	HMMER 1.8	PFAM: Gonadotropin- releasing hormones	PF00446	10.78	112	141
HCFCF47	894415	372	HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	89.54	20	295
HCFCJ21	671028	374	HMMER	PFAM: Core histones	PF00125	12.79	123	188

HCFLE95	945122	391	1.8 blastx.14	H2A, H2B, H3 and H4 p34 protein [Rattus sp.]	gi 534876 dbj BAA02786.1	81% 100% 85% 87%	126 236 71 5	191 271 91 97
HCUAL07	953876	449	blastx.14	(AF079098) arginine-tRNA-protein transferase 1-1p; ATE1-1p [Homo sapiens]	gi 3806094 gb AAD12366.1			
HCUBJ11	967484	478	blastx.14	Ps 2=basic proline-rich protein(PRB1L precursor 1 1 [Homo sapiens]	gi 386433 gb AAB27289.1	37% 53% 35% 40% 28% 40% 36% 36% 41% 41% 32% 33% 36% 36% 71% 71% 35%	158 62 325 133 158 133 225 225 74 74 325 158 158 183 44 44 74	63 24 242 59 63 59 160 160 24 24 242 87 93 118 24 24 24
HCUdT65	915742	548	HMMER 2.1.1 blastx.14	PFAM: tRNA synthetases class II (A) ORF YNL040w [Saccharomyces cerevisiae]	PF01411 gi 1301892 emb CAA95907.1	35.1 42% 52% 31% 42%	697 763 658 1153 1678	930 972 759 1293 1740

HCUEU10	964857	595	HMMER 1.8		PFAM: Bacterial regulatory proteins, luxR family	PF00196		21% 20% 5.43	1009 1273 13	1149 1494 42
HCUGB48	880730	647	HMMER 1.8		PFAM: TNFR/NGFR cysteine-rich region	PF00020		7.99	173	226
HCUGR38	706471	670	HMMER 1.8		PFAM: Alcohol/other dehydrogenases, short chain type	PF00106		73.02	102	284
HCUHM44	615198	702	HMMER 1.8		PFAM: HMG (high mobility group) box	PF00505		4.81	2	73
HCWAK80	702435	748	HMMER 1.8		PFAM: Src homology domain 3	PF00018		3.55	316	387
HCWAR05	932623	759	blastx.14		hypothetical protein [Synechocystis sp.]	gi 1653272 dbj BAA1 8187.1		47% 46% 71%	235 70 321	83 32 301
HCWBB63	667283	782	HMMER 2.1.1		PFAM: Secretory protein of YscJ/FliF family	PF01514		78.2	45	275
HCWBE76	968515	799	HMMER 1.8		PFAM: Helix-loop-helix DNA-binding domain	PF00010		9.77	13	51
HCWBI37	967717	809	blastx.14		URF (pot. 4.5S protein) [Escherichia coli]	gi 42759 emb CAA25 537.1		63% 85% 60%	9 202 228	179 222 257
HCWBI53	934909	810	blastx.14		lepA [Mycobacterium tuberculosis]	gi 1655655 emb CAB 03723.1		85% 84%	65 9	166 65
HCWBI90	921653	812	blastx.14		xylose isomerase [Klebsiella pneumoniae]	gi 43952 emb CAA43 389.1		59% 55%	316 344	8 291
HCWBN06	924638	825	blastx.14		collagen type XVII [Mus musculus]	gi 309183 gb AAA37 443.1		26% 46%	153 262	266 306

HCWBQ03	920886	834	blastx.14	ORF YBR208c [Saccharomyces cerevisiae]	gi 536588 emb CAA85172.1	57%	5	46 140 303 357 360 119
HCWCM65	529230	891	HMMER 1.8	PFAM: AMP-binding enzymes	PF00501	69.62	31	264
HCWCR31	693632	909	HMMER 2.1.1	PFAM: ATP synthase (E/31 kDa) subunit	PF01991	80	229	381
HCWDI64	924632	945	blastx.14	tetracycline transporter- like protein [Mus musculus]	gi 2506078 dbj BAA22622.1	82% 87%	117 73	167 120
HCWDJ23	527555	952	HMMER 2.1.1	PFAM: Bacterial extracellular solute- binding proteins, family 3	PF00497	27.3	25	198
HCWDL45	889416	957	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.63	121	168
HCWDR01	839104	973	HMMER 1.8	PFAM: ABC transporters	PF00005	62.98	15	179
HCWDV17	974478	993	blastx.2 HMMER 1.8	(AE000411) putative ATP-binding component of a transport system [Escherichia coli] PFAM: Bacterial regulatory proteins, luxR family	gb AAC76377.1  PF00196	69% 44% 51% 41% 81.59	9 18 281 391 416	215 200 373 477 613
HCWDX22	967361	1014	blastx.14	copC peptide	gi 151190 gb AAA25	79%	365	84



HCWDX76	932614	1019		blastx.14	[Pseudomonas syringae] (AF102543) unknown [Zymomonas mobilis]	808.1  gi 4378174 gb AAD1 9419.1	81%	423	358
HCWED61	971865	1041		blastx.14	gp210 (AA 1-1886) [Rattus norvegicus]	gi 56463 emb CAA68 759.1	75%	481	212
HCWEG69	948693	1058		HMMER 1.8 blastx.14	PFAM: Zinc-binding metalloprotease domain	PF00099	2.79	57	98
HCWEI19	948690	1066		HMMER 1.8 blastx.14	orf3 [Pseudomonas aeruginosa] PFAM: Zinc-binding metalloprotease domain	gi 557259 emb CAA5 7572.1  PF00099	55% 87% 8.6	248 56 226	45 9 273
HCWEL01	916972	1086		blastx.14	formaldehyde dehydrogenase (glutathione) [Escherichia coli] (AF010496) exonuclease SbcD homolog [Rhodobacter capsulatus]	gi 887431 emb CAA5 2057.1  gi 3128267 gb AAC1 6119.1	75% 39% 47%	300	10 171 249
HCWEM51	920887	1096		blastx.14	argininosuccinate lyase [Bacillus subtilis]	gi 2635409 emb CAB 14904.1  PF00270	54% 47%	365 57	39 7
HCWEQ14	908245	1105		HMMER 1.8 blastx.14	PFAM: DEAD and DEAH box helicases (AC002985) R27090_2 [Homo sapiens]	PF00183	72.08	37	177
HCWEW45	571355	1116		HMMER 1.8 blastx.14	PFAM: Heat shock hsp90 proteins (AJ000758) precorrin-4 methylase [Bacillus megaterium]	gi 2443870 gb AAB8 1544.1  gi 3724045 emb CAA 04314.1	100% 66% 10.32	37 5 37	177 40 186
HCWEY34	954142	1125		blastx.14			32%	3	242

HCWFF88	506577	1143	HMMER 1.8	PFAM: Src homology domain 3	PF00018	4.92	140	181
HCWFK57	861907	1149	HMMER 2.1.1	PFAM: RNA polymerase beta subunit	PF00562	36.2	34	270
HCWFT29	690751	1186	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	4.51	105	152
HCWUF66	853005	1196	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	71.4	105	269
HCWGB78	861843	1217	HMMER 2.1.1	PFAM: Ribosomal protein L31	PF01197	50.8	126	236
HCWGE12	967067	1223	HMMER 1.8	PFAM: Bacterial mufT protein	PF00293	4.04	214	288
HCWGW12	964088	1262	blastx.14	L-lactate dehydrogenase (EC 1.1.1.27) - Acinetobacter 1	pir A37334 A37334	73%	137	60
HCWGY90	960159	1288	HMMER 1.8 blastx.14	PFAM: Bacterial regulatory helix-loop- helix proteins, araC family operon regulatory protein [Erwinia carotovora]	PF00165 gi 148382 gb AA24 811.1	58.7 86%	6 6	137 158
HCWHB12	970688	1295	blastx.14	Nodulation protein V (EC 2.7.3.-). [Escherichia coli]	gi 1736771 dbj BAA1 5920.1	47% 33% 85%	195 59 310	314 211 330
HCWHD07	953384	1305	blastx.14	Isp42p [Saccharomyces cerevisiae]	gi 736300 emb CAA8 8644.1	41% 46% 50%	56 298 341	301 393 394
HCWHP74	598510	1334	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.09	68	112

HCWHQ03	924187	1336	blastx.14	(AL049608) extensin-like protein [Arabidopsis thaliana]	gi 4584539 emb CAB40769.1	50%	85	14
HCWHQ31	574945	1337	HMMER 2.1.1	PFAM: Carbon-nitrogen hydrolase	PF00795	39.4	141	308
HCWHR81	935419	1343	HMMER 2.1.1	PFAM: Ribosomal protein L30p/L7e	PF00327	90.5	107	265
HCWHT59	924105	1349	blastx.14	(AF047828) syringomycin synthetase [Pseudomonas syringae pv. syringae]	gi 3510629 gb AAC80285.1	57%	261	148
						45%	327	148
						50%	261	148
						50%	261	148
						36%	122	9
						34%	122	9
						61%	329	252
						55%	157	104
						40%	104	9
						33%	107	9
						66%	142	107
						55%	305	252
						26%	249	160
						26%	249	160
						44%	305	252
						41%	157	107
						41%	157	107
						33%	311	249
						22%	107	15
						32%	246	163
HCWKF08	959388	1388	blastx.14	pot. ORF I [Homo]	gi 1335196 emb CAA	57%	83	27

				sapiens]	26917.1]		62%	303	256
HCWKN08	959380	1409	blastx.14	CeoB [Burkholderia cepacia]	gi 2109271 gb AAB58161.1		32%	192	82
							47%	247	179
HCWKV68	959801	1427	blastx.14	(AL121600) hypothetical protein SCF76.09 1	gi 6002364 emb CAB56729.1		55%	249	169
							50%	148	83
HCWLD06	935392	1437	blastx.14	ORF_o485 [Escherichia coli]	gi 887832 gb AAA83063.1		62%	281	258
							54%	61	29
HCWLE37	960093	1442	blastx.14	(AF039571) peripheral benzodiazepine receptor interacting protein; PBR-IP/PRAX1 [Homo sapiens]	gi 4104812 gb AAD11957.1		34%	219	142
							42%	120	43
HCWLH79	959458	1453	blastx.14	(AC004877) sco-spondin-mucin-like; similar to P98167 1 sapiens]	gi 3638957 gb AAC36301.1		57%	238	218
							47%	240	7
HCWTB11	965024	1462	blastx.14	DNA primase [Escherichia coli]	gi 147755 gb AAA24600.1		42%	449	282
							35%	66	7
HCWTB56	853009	1470	HMMER 1.8	PFAM: E1-E2 ATPases	PF00122		100%	126	263
			blastx.2	cadmium resistance protein [Lactococcus lactis]	gb AAB37345.1		85%	304	345
HCWTR08	958791	1516	blastx.14	(AE000888) malate dehydrogenase [Methanobacterium	gi 2622314 gb AAB85694.1		87%	103	126
							44%	66	119
							36%	250	315
							27%	289	191
							71%	326	306
							45%	341	3
							55.15	2	301
							42%	2	316
							43%	66	134
							44%	182	262

HCWTR54	729290	1517	HMMER 1.8	thermoautotrophicum]	PF00271	6.14	151	198
HCWTS15	654317	1519	HMMER 1.8	PFAM: D-isomer specific 2-hydroxyacid dehydrogenases	PF00389	47.52	2	166
HCWUU16	661570	1593	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.17	33	77
HDDMA83	926991	1633	blastx.14	(AF038963) RNA helicase [Homo sapiens]	gi 4405795 gb AAD1 9826.1	100% 51% 100% 90%	2 537 656 526	514 635 694 558
HDMAQ15	941282	1646	HMMER 2.1.1	PFAM: POT family	PF00854	77.2	811	386
HDPAG32	947832	1655	blastx.2	(AF121080) cAMP inducible 1 protein [Mus musculus]	gb AAD24570.1 AF1 21080_1	80%	2	997
HDPCN94	794275	1678	HMMER 2.1.1	PFAM: Peptidase family M1	PF01433	39.1	335	577
HDPFF07	974494	1694	blastx.14	PFAM: RhoGEF domain	PF00621	54.2	363	740
HDPIT53	926498	1736	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD3 8043.1 AF151363_1	92% 96% 50%	513 715 458	716 789 505
HDPIT61	741724	1737	blastx.2	(AF109719) BAT2 [Mus musculus]	gi 3941737 gb AAC8 2480.1	50% 30%	229 278	170 219
				(AF121080) cAMP inducible 1 protein [Mus musculus]	gb AAD24570.1 AF1 21080_1	73% 57%	48 293	329 397

HDPKD52	959653	1750	HMMER 1.8	PFAM: Fibronectin type III domain	PF00041	4.82	340	402
HDPLC45	909091	1755	HMMER 2.1.1	PFAM: BTB/POZ domain	PF00651	39.5	280	507
HDPMA48	582015	1775	blastx.2	(AF038007) FIC1 [Homo sapiens]	gb AAC63461.1	54%	152	703
HDPMO62	912722	1780	HMMER 1.8	PFAM: Ras family (contains ATP/GTP binding P-loop)	PF00071	132.39	127	432
			blastx.2	rab-related GTP-binding protein [Homo sapiens]	emb CAA68227.1	54% 57%	133 20	444 76
HDPNC96	934520	1788	HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	206.63	3	734
			blastx.14	HUMAN NDR [unidentified]	gi 2304746 emb CAA 03387.1	92%	3	734
HDPOJ93	792193	1797	HMMER 1.8	PFAM: EF hand	PF00036	7.78	266	313
HDPPP24	812091	1815	HMMER 2.1.1	PFAM: Fes/CIP4 homology domain	PF00611	22.4	151	387
HDPPU44	951276	1818	HMMER 1.8	PFAM: Lectin C-type domain short and long forms	PF00059	37.49	245	376
HDPRH02	919404	1837	blastx.14	ORF YGR090w [Saccharomyces cerevisiae]	gi 1323133 emb CAA 97093.1	30% 48%	266 593	451 673
HDPSG10	961323	1849	blastx.14	reverse transcriptase [Homo sapiens]	gi 439877 gb AAB02 291.1	66% 37% 54%	6 280 235	59 351 267
HDPTW90	722699	1868	HMMER 1.8	PFAM: IG (immunoglobulin)	PF00047	3.32	1	24

HDPVG11	966556	1877	HMMER 1.8	superfamily PFAM: PH (pleckstrin homology) domain	PF00169	16	518	613
HDPWE80	909916	1890	HMMER 2.1.1	PFAM: PH domain	PF00169	81.2	412	708
			blastx.2	(AF102854) membrane- associated guanylate kinase-interacting protein 2 Maguin-2 [Rattus norvegicus]	gb AAD04568.1	36%	349	756
HDPWY46	915964	1894	blastx.14	(AF061738) leucine aminopeptidase [Homo sapiens]	gi 4335941 gb AAD1 7527.1	94% 87% 80% 95% 62% 33%	3 316 140 254 425 305	152 438 217 316 472 358
HDQEF04	927024	1914	blastx.14	Bassoon [Mus musculus]	gi 3413810 emb CAA 76598.1	75%	239	216
HDQGT70	909848	1936	blastx.14	Bat2 [Homo sapiens]	gi 29375 emb CAA78 744.1	37%	248	201
HDQHT10	963481	1944	blastx.14	(AF039571) peripheral benzodiazepine receptor interacting protein; PBR- IP/PRAX1 [Homo sapiens]	gi 4104812 gb AAD1 1957.1	58% 43% 100% 55% 42% 58% 83%	490 387 76 253 256 45 51	455 319 59 227 215 10 34
HDQHZ10	961336	1945	blastx.14	fractionated X-irradiation- induced 29 thymoma [Mus musculus]	gi 1389694 gb AAB0 2905.1	51% 71%	47 2	256 43
HDQHZ22	879416	1946	blastx.2	cysteine rich hair keratin	emb CAA56339.1	40%	65	319

					associated protein [Oryctolagus cuniculus]			42%	65	352
HDTAY23	973925	1956	blastx.14		(AF086624) serine threonine kinase [Rattus norvegicus]		gi 3800869 gb AAC6 8900.1	98%	78	254
HDTAY23	974565	9561	blastx.14		(AF086624) serine threonine kinase [Rattus norvegicus]		gi 3800869 gb AAC6 8900.1	98% 85% 100% 66%	79 330 371 305	255 371 403 331
HDTBO48	945083	1959	HMMER 1.8		PFAM: IG (immunoglobulin) superfamily		PF00047	18.53	159	347
			blastx		(AJ009698) embigin protein [Rattus norvegicus]		emb CAA08796.1	58% 75% 58%	132 273 357	248 356 464
HDTBR50	846630	1968	HMMER 1.8		PFAM: Thioredoxins		PF00085	29.85	163	297
HDTBY88	934472	1973	HMMER 2.1.1		PFAM: Eukaryotic protein kinase domain		PF00069	93.6	3	302
			blastx.14		p56 KKIAMRE protein kinase [Homo sapiens]		gi 1517820 gb AAC5 0918.1	82% 35% 100%	3 192 492	170 458 509
HDTDC53	916348	1977	HMMER 1.8		PFAM: Core histones H2A, H2B, H3 and H4		PF00125	7.98	180	233
HDTEI19	912765	1984	blastx.14		rab4b [Canis familiaris]		gi 919 emb CAA3980 0.1	78% 88%	244 387	354 413
HDTES50	964709	1987	HMMER 1.8		PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)		PF00076	31.58	108	326
			blastx.2		arginine-rich nuclear		gb AAA35554.1	65%	36	350



HDTHQ15	923899	2009	blastx.14	protein [Homo sapiens] Similar to a C.elegans protein encoded in cosmid C27F2 (U40419) [Homo sapiens]	gi 1665781 dbj BAA1 3387.1	97%	4	612
HDTHZ46	957669	2012	blastx.14	(AC004877) sco-spondin- mucin-like; similar to P98167 1 sapiens]	gi 3638957 gb AAC3 6301.1	43% 42% 46% 43% 40% 38%	100 45 172 2 5 318	168 101 216 49 49 371
HDTID61	908946	2016	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	7.07	407	430
			blastx.2	(AK002053) unnamed protein product [Homo sapiens]	dbj BAA92059.1	46% 53% 50% 45% 47% 49% 46% 33% 42% 34% 51% 57% 37% 32% 50% 47% 66%	45 45 33 45 45 48 45 18 18 60 18 347 347 338 374 338 519	389 341 341 389 344 356 344 674 320 554 245 457 547 553 457 442 554
HDTIF01	883070	2017	blastx.2	(AF010144) neuronal	gb AAC08737.1	61%	315	524

[illegible]

HDTLD17	908601	2052	1.8	domain 3	emb CAB41255.1			
			blastx.2	(AL049683) hypothetical protein [Homo sapiens]		100%	439	555
			HMNER 2.1.1	PFAM: Zinc finger, C2H2 type		56%	76	291
			blastx.2	Zfp-29 [Mus musculus]	emb CAA38920.1	96.3	154	222
						48%	49	636
						65%	49	399
						66%	49	399
						66%	70	399
						65%	49	411
						62%	49	369
						64%	70	381
						47%	115	636
						58%	49	324
						42%	372	641
						50%	375	569
						47%	375	569
						47%	375	569
						48%	372	569
						43%	372	578
						42%	372	602
						46%	375	569
						35%	279	569
						43%	372	569
						43%	375	569
						46%	375	569
						63%	547	636
						63%	547	636
						52%	538	651
						56%	547	642
						35%	375	491

HEOMG48	963338	2091	blastx.14	very large tegument protein [human herpesvirus 2]	gi 1869859 emb CAB06722.1	66%	641	667
HEOMG78	920911	2092	blastx.14	contains similarity to C2 domains [Caenorhabditis elegans]	gi 1825586 gb AAB42222.1	70% 40%	294 136	437 246
HEOMS08	959581	2113	blastx.14	(AF034970) docking protein [Homo sapiens]	gi 3043919 gb AAC13265.1	93% 83%	129 172	173 207
HEOMT79	936687	2118	blastx.14	(AF108420) 1-aminocyclopropane-carboxylate synthase [Fugu rubripes]	gi 4426837 gb AAD20564.1	52%	10	210
HEOMU79	965900	2121	blastx.14	HLA-B-associated transcript 2 (BAT2) [Homo sapiens]	gi 179339 gb AAA35585.1	29%	320	198
HEOMX92	919200	2131	blastx.14	TGR-CL5bis [Homo sapiens]	gi 1247469 emb CAA01862.1	53% 38% 53% 30% 27%	274 129 271 44 206	230 91 233 6 174
HEOMX92	961148	9562	blastx.14	retrovirus-related reverse transcriptase pseudogene - slow loris	pir B25313 GNLRL1	46% 50%	44 247	241 312
HEONQ19	930705	2142	HMMER 2.1.1	PFAM: PH domain	PF00169	42.5	213	533
			blastx.2	(AJ250425) Collybistin I [Rattus norvegicus]	emb CAB65966.1	96%	9	629

HEONV59	949152	2148	blastx.2	(AK001463) unnamed protein product [Homo sapiens]	dbj BAA91707.1	51% 50%	163 284	279 379
HEOPE58	851009	2157	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	5.32	320	364
HEOPO08	958184	2174	blastx.14	alpha-1 type II collagen [Xenopus laevis]	gi 214044 gb AAA49679.1	38% 32% 31% 75% 36%	142 429 429 273 208	11 346 334 250 134
HEOQC76	909032	2189	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	86.9	169	237
			blastx.2	(AK001753) unnamed protein product [Homo sapiens]	dbj BAA91884.1	37% 33% 35% 52% 29%	139 139 139 154 196	609 609 480 306 582
HEOQP44	942596	2203	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	420.7	250	1026
HEOQS11	965930	2204	blastx.14	ORF1A [Homo sapiens]	gi 475909 emb CAA47472.1	51%	30	152
HEORE79	959572	2214	blastx.14	rehydrin [Tortula ruralis]	gi 1732471 gb AAB49656.1	53% 46% 50% 50% 55% 55% 42% 62% 62% 62%	101 101 232 284 58 180 223 58 180 302	145 145 267 325 84 206 264 81 203 325

HHECO01	915285	2250	blastx.14	(AF039691) antigen NY-CO-9 [Homo sapiens]	gi 3170182 gb AAC18040.1	65%	302	174
HHEEC07	952455	2267	blastx.14	(AF064257) Dhml-like protein [Homo sapiens]	gi 5881961 gb AAD55138.1 AF064257.1	100%	25	2
HHEHU73	923895	2279	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	99%	1202	1801
						100%	1862	1912
HHEJH30	961974	2282	blastx.14	(AF180920) cyclin ania-6a [Homo sapiens]	gi 5823554 gb AAD53184.1 AF180920.1	4.1	115	156
HHEND45	919630	2302	HMMER 1.8	PFAM: Double-stranded RNA binding motif	PF00035	95%	226	417
			blastx.14	[D.melanogaster mRNA, complete cds.], gene product [Drosophila melanogaster]	gi 158506 gb AAA73062.1	95%	429	494
						12.86	25	114
HHEQK01	871911	2346	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	52%	1	114
						47%	235	297
HHEQV39	932851	2354	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.27	64	90
HHESU85	783820	2381	HMMER 1.8	PFAM: Heat shock hsp90 proteins	PF00183	30.41	526	708
HHETQ54	908567	2392	HMMER 2.1.1	PFAM: KRAB box	PF01352	11.81	88	288
			blastx.14	NK10 [Mus musculus]	gi 506502 emb CAA56225.1	166.4	233	421
						89%	212	448
HHEUA62	965709	2400	HMMER 1.8	PFAM: Spectrin alpha chain, repeated domain	PF00435	10.48	103	186
			blastx.14	(AB023622) Septin6 [Mus musculus]	gi 5689158 dbj BAA82838.1	59%	13	144
						60%	211	315

HHEUC31	795268	2401	HMMER 2.1.1	PFAM: Ank repeat	PF00023	31.5	3	92
HKBAT27	963724	2486	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.17	11	37
HLMBW11	950728	2526	blastx.14	(AF156884) RIP-like kinase [Homo sapiens]	gi 5059425 gb AAD3 9005.1 AF156884_1	92%	129	782
HLMBY16	531053	2529	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	1.99	82	123
HLMDU71	531228	2572	HMMER 2.1.1	PFAM: Phosphate- binding protein	PF01449	48.1	1	123
HLMFU09	909666	2600	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD3 8043.1 AF151363_1	78%	277	372
HLMHP67	967636	2633	blastx.14	Hypothetical bacteriophage n4 receptor protein NfrA precursor. [Escherichia coli]	gi 1651236 dbj BAA3 5202.1	82% 100%	107 3	340 104
HLMHT94	531054	2641	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.86	264	284
HLMIX95	960056	2679	blastx.14	(AB008430) CDEP [Homo sapiens]	gi 2766165 dbj BAA2 4267.1	89% 69%	440 47	330 9
HLMMA52	920292	2694	blastx.14	ORF-3 protein [Pseudorabies virus]	gi 334072 gb AAA47 471.1	43% 100% 70%	115 165 174	162 176 203
HLMMD05	932127	2697	blastx.14	collagen [Ascaris suum]	gi 159657 gb AAA29 371.1	50% 61% 44% 58% 63% 50%	189 355 189 107 349 387	124 317 115 72 317 352

HLMMV66	926188	2733	HMMER 1.8 blastx.14	PFAM: Ank repeat  similar to HUMORFU (D26069) [Homo sapiens]			42% 50% 46% 46% 32% 46%	358 407 355 110 189 355	317 366 317 66 115 317
HLMNL55	964739	2769	blastx.14	dynein heavy chain isotype 6 [Tripneustes gratilla]	gi 488505 dbj BAA06 418.1		62% 81% 86% 71% 39% 43%	230 337 404 378 173 99	382 384 448 419 256 146
HLMNN02	920296	2776	blastx.14	(AF083501) latent nuclear antigen [Macaca mulatta rhadinovirus 17577]	gi 687206 gb AAA63 589.1		36% 53% 50% 33%	345 191 86 306	289 153 57 208
HL YAA41	909874	2871	HMMER 2.1.1	PFAM: PH domain	PF00169		37.3	162	260
HL YDL60	909866	2980	blastx.14	ORF-3 protein [Pseudorabies virus]	gi 334072 gb AAA47 471.1		44% 37% 35% 30% 39% 75% 47% 75%	89 229 376 259 283 179 232 26	15 158 293 191 215 156 182 3



HL YDS11	966732	2986	blastx.14	orfV [Borna disease virus]		gi 473842 gb AAA20666.1	38%	250	197
HL YDT68	526245	2991	HMMER 1.8	PFAM: Zinc finger, C2H2 type		PF00096	39%	200	161
HL YDV62	927872	2993	HMMER 2.1.1	PFAM: PH domain		PF00169	4.11	89	124
			blastx.2	(AC005496) unknown protein [Arabidopsis thaliana]		gb AAC35236.1	58.6	188	406
HL YEN93	682176	3005	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain		PF00130	41% 38%	113 451	292 504
HL YGP46	832311	3042	HMMER 2.1.1	PFAM: IQ calmodulin-binding motif		PF00612	2.86	383	409
HL YHN67	920551	3056	blastx.14	EDTP(egg derived tyrosine phosphatase).		sp BAA33720 BAA33720	24.4	12	74
HMAAF10	968199	3062	blastx.14	Formate c-acetyltransferase (EC 2.3.1.54). [Escherichia coli]		gi 1651427 dbj BAA35638.1	65% 47%	1 264	234 314
							100% 76%	1 347	300 385
HMABJ56	907640	3063	HMMER 2.1.1	PFAM: ADP-ribosylation factor family		PF00025	24.8	157	231
			blastx.14	(AF082517) ADP-ribosylation factor [Entamoeba histolytica]		gi 3746799 gb AAC64063.1	39% 56% 61%	281 154 233	403 228 271
HMABQ71	729831	3065	HMMER 2.1.1	PFAM: DNA topoisomerase II (N-terminal region)		PF00204	128.8	210	407

HMADC02	920088	3067	blastx.14	ORF_f418 [Escherichia coli]	gi 536985 gb AAA97040.1	95%	202	143
HMADZ55	939916	3071	blastx.2	(AK002022) unnamed protein product [Homo sapiens]	dbj BAA92041.1	98%	270	728
HMAFY42	778521	3078	HMMER 2.1.1	PFAM: WH1 domain	PF00568	90	46	303
HMAGK69	723186	3080	HMMER 1.8	PFAM: Signal C terminal domain	PF00512	40.87	31	405
HMAIC22	947905	3085	HMMER 2.1.1	PFAM: Peptidase family M3	PF01432	65.9	115	402
			blastx.14	CG Site No. 18031 [Escherichia coli]	gi 466635 gb AAB18474.1	84% 100% 55%	112 2 363	390 112 422
HMAKA11	966282	9569	blastx.14	MaoB [Escherichia coli]	gi 1480003 dbj BAA11058.1	99% 90% 50%	1516 1673 1587	803 1545 1474
HMALL66	956195	3091	HMMER 1.8	PFAM: Adenylate kinases	PF00406	50.17	63	296
HMCDN22	895981	3107	blastx.2	(AJ007798) stromal antigen 3, (STAG3) [Homo sapiens]	emb CAB59367.1	82% 90% 71%	85 445 10	456 573 168
HMCFB22	963794	3110	blastx.14	probable transposase - human transposon MER37	pir S72481 S72481	73% 82% 43% 61% 63%	183 119 313 5 90	320 187 423 58 122
HMCYG77	753133	3117	HMMER 2.1.1	PFAM: Kelch motif	PF01344	51.9	7	132
HMMAB49	462502	3127	HMMER	PFAM: Zinc-binding	PF00099	3.49	166	183

HMMAC19	953580	3129	1.8	blastx.14	metallopeptidase domain (AF003535) ORF2-like protein [Homo sapiens]	gi 2197085 gb AAD0 4635.1	47%	26	145
HMMCH04	944069	3208	blastx.2	unknown [Homo sapiens]	gb AAC50940.1		47%	282	344
HMQBU96	765162	3247	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010		87%	187	210
HMQDZ19	940694	3267	blastx.14	urokinase plasminogen activator receptor [Homo sapiens]	gi 433901 emb CAA5 2191.1		58%	423	680
HMSBV28	970579	3303	blastx.14	YKL249 [Saccharomyces cerevisiae]	gi 871536 emb CAA4 9304.1		7.33	8	40
HMSCD15	918133	3310	HMMER 1.8	PFAM: Src homology domain 3	PF00018		100%	89	124
HMSFR69	738588	3373	blastx.2	(AK000975) unnamed protein product [Homo sapiens]	dbj BAA91451.1		91%	133	168
HMSGGL27	855759	9573	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125		92%	260	108
HMSGP73	925385	3401	blastx.14	PFAM: Bacterial mutT protein	PF00293		51%	141	1
HMSGX14	871492	3413	HMMER 1.8	(AC004490) R29381_1 [Homo sapiens]	gi 2995577 gb AAC0 8316.1		50%	323	282
HMSHO64	746582	3431	HMMER 1.8	PFAM: Ribosomal protein S12	PF00164		41.06	453	599
			blastx.2	PFAM: Src homology domain 3	PF00018		98%	453	635
			blastx.2	(AF030131) Plenty of SH3s; POSH [Mus]	gb AAC40070.1		29%	387	479
			blastx.2				28%	80	175
			blastx.2				7.78	258	202
			blastx.2				5.56	276	202
			blastx.2				94%	141	908
			blastx.2				95%	901	972
			blastx.2				33.44	28	153
			blastx.2				11.08	316	405
			blastx.2				47%	1	411

HMSHZ56	733386	3447	HMMER 1.8	musculus] PFAM: Zinc finger, CCHC class	PF00098		4.89	208	228
HMSJT11	965007	3491	blastx.14	(AF148805) latent nuclear antigen [Kaposi sarcoma- associated herpesvirus]	gi 5669894 gb AAD4 6501.1 AF148805_6		20% 24% 21% 23% 16%	667 241 241 211 139	1137 465 465 453 465
HMSJW19	744990	3498	HMMER 2.1.1	PFAM: BAH domain	PF01426		48.7	2	163
HMSKI08	959413	3509	blastx.14	(AF094516) E1-like protein [Homo sapiens]	gi 3820614 gb AAC6 9630.1		97%	97	513
HMSOM08	958216	3538	blastx.14	(AF082556) TRF1- interacting ankyrin-related ADP-ribose polymerase [Homo sapiens]	gi 3929219 gb AAC7 9841.1		76%	2	232
HMSOU92	948130	9578	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21		64% 63% 88%	302 462 532	463 527 558
HMSOX47	948202	3548	blastx.14	cDNA EST EMBL:M89462 comes from this gene; cDNA EST 1 1 yk349d7.5 comes from this gene; cDNA EST yk358b9.5 comes from this	gi 3879085 emb CAA 94301.1		48% 39% 36% 39% 26%	514 365 266 173 514	612 463 355 256 591
HMVDU16	904807	3589	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125		13.38	1252	1329
HMWCQ09	924634	3606	blastx.14	Emf1 alpha [Ephydatia muelleri]	gi 9300 emb CAA494 72.1		50% 33% 66%	19 99 217	84 233 243

HMWDD54	932261	3610	blastx.14	(AF175223) SANT domain protein SMRTER [Drosophila melanogaster]	gi 5815245 gb AAD52614.1 AF175223_I	38%	292	345
HMWDF88	906769	3612	HMMER 1.8	PFAM: Low-density lipoprotein receptor domain class A	PF00057	41.61	171	245
			blastx.14	(AF110520) NG29 [Mus musculus]	gi 4050096 gb AAC97969.1	69% 48% 35% 50%	114 129 9 72	239 239 110 107
HMWGG55	920575	3642	blastx.14	DNA polymerase [Pyrococcus furiosus]	gi 216918 dbj BAA02362.1	94%	195	308
HMWGT07	953454	3645	blastx.14	(AL078579) putative protein [Arabidopsis thaliana]	gi 4972120 emb CAB43977.1	40% 40% 46%	218 395 113	322 475 157
HMWHN70	851334	3654	HMMER 1.8	PFAM: Zinc finger, C3HC4 type (RING finger)	PF00097	6.51	187	255
HNEBJ08	958742	3689	blastx.14	mucin 2 precursor, intestinal - human (fragments)	pir A49963 A43932	35% 83%	305 320	264 303
HNEDU01	909832	3748	blastx.14	(AC002398) F25965_3 [Homo sapiens]	gi 2477513 gb AAB81198.1	71% 57% 62% 43% 50%	207 80 1 323 337	323 205 87 412 384
HNFEF95	971171	3792	blastx.14	ORF_o493 [Escherichia coli]	gi 606260 gb AAA58123.1	98% 89% 81%	548 103 185	201 20 105
HNFFM25	705856	3818	HMMER	PFAM: Laminin B	PF00052	0.47	520	603

HNFFT62	574623	3828	1.8	(Domain IV) PFAM: C2 domain	PF00168		2.74	207	272
HNFGI01	921431	3851	HMMER 1.8 blastx.14	(AF118890) s-tomosyn isoform [Rattus norvegicus]	gi 4689231 gb AAD2 7819.1 AF118890_1		86% 100% 40%	234 153 287	302 200 361
HNFGI49	909707	3852	blastx.14	(AF086624) serine threonine kinase [Rattus norvegicus]	gi 3800869 gb AAC6 8900.1		100% 100%	1 60	45 86
HNFGM76	908665	3862	HMMER 2.1.1 blastx.2	PFAM: Zinc finger, C2H2 type (AF132599) RANTES factor of late activated T lymphocytes-1 [Homo sapiens]	PF00096 gb AAD26864.1 AF1 32599_1		74.8 92%	232 1	306 417
HNFHA11	967520	3874	HMMER 2.1.1 blastx.14	PFAM: Phosphoenolpyruvate carboxykinase phosphoenolpyruvate carboxykinase [Escherichia coli]	PF01293 gi 606337 gb AAA58 200.1		118.1 99%	55 55	219 360
HNFBK77	576186	3890	HMMER 2.1.1 blastx.14	PFAM: Aldehyde dehydrogenase family	PF00171		30.2	231	326
HNFBQ01	938114	3897	blastx.14	serine/threonine kinase with SH3 domain, leucine 1	gi 758593 emb CAA8 8531.1		28% 46% 46% 25% 41%	248 43 371 79 176	331 81 415 186 211
HNFBW14	939763	3908	HMMER 2.1.1	PFAM: Latrophilin/CL-1- like GPS domain	PF01825		35.1	44	196

				blastx.2	(AF166382) serpentine receptor [Mus musculus]	gb AAF00617.1 AF166382_1	44%	38	283
HNF1G07	918389	3921	blastx.14	(AF128881) PI3 kinase regulatory subunit P101 [Homo sapiens]	gi 4928058 gb AAD33397.1 AF128881_1	80% 60%	2 448	445 477	
HNF1P50	965283	3936	blastx.14	mutant sterol regulatory element binding protein-2 1	gi 841318 gb AAA85718.1	65% 34% 85%	356 42 665	631 128 685	
HNGAL92	953889	3976	blastx.14	phosphatidylserine decarboxylase [Escherichia coli]	gi 551827 gb AAA83896.1	73%	212	18	
HNGAS51	773208	3984	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.57	144	182	
HNGBF80	574475	4001	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	4.98	88	111	
HNGBH77	577361	4005	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	9.81	130	189	
HNGCE85	970738	4039	blastx.14	hypothetical protein Tigger 2 - human transposon MER37 1	pir S72489 S72489	72% 63%	284 212	210 180	
HNGCX07	953900	4065	HMMER 1.8	PFAM: Src homology domain 3	PF00018	3.68	45	161	
HNGEN37	663955	4160	HMMER 2.1.1	PFAM: Indole-3-glycerol phosphate synthases	PF00218	125.4	2	223	
HNGEQ07	953647	4169	HMMER 1.8	PFAM: TPR Domain	PF00515	10.86	164	238	
HNGER43	699391	4173	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.79	151	195	
HNGER96	922996	4177	blastx.14	Bkm-like protein [Drosophila melanogaster]	gi 552132 gb AAA28872.1	60% 64%	250 250	294 291	

[illegible]



HNGFK28	943115	9586	HMMER 2.1.1	[Escherichia coli] PFAM: ABC transporter transmembrane region.	PF00664	84% 91%	25 2	162 37
HNGFO46	935135	4244	blastx.2	MsbA protein. [Escherichia coli] hypothetical protein T23G5.2 - Caenorhabditis elegans	dbj BAA35658.1  pir S28303 S28303	99% 44% 60% 40% 36%	3 84 116 205 263	512 10 87 161 198
HNGFO81	526792	4246	HMMER 2.1.1	PFAM: Integrase core domain	PF00665	42.7	84	215
HNGFU12	971170	4265	HMMER 1.8	PFAM: RNase H reverse transcriptase (476 AA) [Woolly monkey sarcoma virus]	PF00075 gi 930259 emb CAA3 3367.1	55.68 44% 60%	102 96 1	290 422 75
HNGFW09	924693	4270	blastx.14	180 kDa bullous pemphigoid antigen 2/type XVII collagen [Homo sapiens]	gi 1877435 gb AAB5 1499.1	50% 53% 66% 36% 75% 60% 85% 85% 60% 54% 50% 26% 62% 75%	196 167 155 75 152 335 152 152 196 196 289 131 152 152	155 129 129 1 129 306 132 132 167 164 248 63 129 129



				1.8	Insulin/IGF/Relaxin family				
HNGLG06	839088	4666		HMMER 1.8	PFAM: ABC transporters	PF00005	47.92	348	599
				blastx.2	Hypothetical protein HI0658 [Escherichia coli]	dbj BAA35501.1	99%	270	665
HNGLH82	954140	4668		blastx.14	diaminopimelate decarboxylase [Escherichia coli]	gi 455170 gb AAA83861.1	98%	416	249
							71%	193	47
HNHMM87	806036	4715		HMMER 1.8	PFAM: ATP synthase A chain	PF00119	63%	258	136
							8.41	237	362
HNHGO22	953888	4762		blastx.14	(AE000449) putative xylanase [Escherichia coli]	gi 1790156 gb AAC76742.1	94%	104	3
							91%	151	116
HNHAI11	967668	4790		blastx.14	p15E carboxyterminal sequence [Kirsten murine sarcoma virus]	gi 4469304 emb CAA25493.1	38%	262	161
							28%	406	323
HNHBE19	724404	4798		HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	53%	310	272
							4.4	113	145
HNHBY45	774280	4823		HMMER 1.8	PFAM: ATP synthase A chain	PF00119	8.4	228	347
HNHDM74	506621	4878		HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	1.89	395	427
HNHDY50	924211	4910		blastx.14	unknown protein [Homo sapiens]	gi 1196398 gb AAA88020.1	50%	33	170
							44%	23	169
HNHEJ85	964882	4955		blastx.14	synexin - bovine (fragment)	pir A27695 A27695	41%	6	164
							54%	47	15
							46%	91	53

[illegible]

HNHHL74	765598	5266	HMMER 1.8		PFAM: Bacterial mutT protein	PF00293		33%	220	158
HNHIA95	908419	5318	HMMER 2.1.1		PFAM: gag gene protein p24 (core nucleocapsid protein)	PF00607		63%	187	155
HNHPH29	934456	5496	blastx.14		(AF118275) atrophin- related protein ARP [Homo sapiens]	gi 4680231 gb AAD2 7584.1 AF118275_1		3.57	83	148
HOIAE91	935322	5497	HMMER 1.8		PFAM: Phorbol esters / diacylglycerol binding domain	PF00130		67.6	49	300
HSATQ28	866951	5512	HMMER 1.8		PFAM: Ubiquitin carboxyl-terminal hydrolases family 2	PF00442		60%	363	407
HSAYN79	471037	5646	HMMER 1.8		PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076		45%	90	122
HSYBL15	660053	5682	HMMER 1.8		PFAM: Phorbol esters / diacylglycerol binding domain	PF00130		70%	360	380
HSYDP04	970789	5686	blastx.14		(AF113615) FH1/FH2 domain-containing protein FHOS [Homo sapiens]	gi 5106956 gb AAD3 9906.1 AF113615_1		50%	2	70
HT3SA07	954360	5702	blastx.14		ORF2 contains a reverse transcriptase domain.; ORF2 [Homo sapiens]	gi 339771 gb AAA51 622.1		47%	77	394
HT4GJ85	909971	5714	HMMER		PFAM: PH (pleckstrin)	PF00169		50%	408	467
								54%	393	443
									83	178
									47	79
								11.11	365	451

				1.8	homology) domain				
				blastx.14	(AF053974) SWAP-70 [Mus musculus]	gi 3290154 gb AAC40155.1	53%	251	448
HT5EA69	952359	5721		blastx.14	(AL032624) cDNA EST yk321h8.5 comes from this gene; 1 from this gene [Caenorhabditis elegans]	gi 3881086 emb CAA21522.1	37% 30%	264 123	479 251
HTAAW46	719422	5735		HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	5.82	6	35
HTABG87	940153	5745		HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	13.81	240	335
HTACW17	961560	5760		blastx.14	(AF006064) protein kinase homolog [Fowlpox virus]	gi 2393890 gb AAC58236.1	54% 33%	8 189	139 356
HTAFE69	944409	5797		blastx.2	(AC007660) unknown protein [Arabidopsis thaliana] (AK000496) unnamed protein product [Homo sapiens]	gi 4895220 gb AAD32806.1 AC007660_7	37% 61%	54 212	221 265
HTAHL45	908949	5817		HMMER 2.1.1	PFAM: SCAN domain	dbj BAA91205.1	69%	432	704
HTAHV04	926747	5826		blastx.14	(AC004522) Zn-finger-like protein; similar to Z98745 (PID:g2924250) [Homo sapiens]	PF02023	228.7	268	555
HTAJN08	958057	5841		HMMER	(AC005757) R32611_1 [Homo sapiens]	gi 3006231 gb AAC09486.1	65% 36%	220 529	534 642
						gi 3688089 gb AAC62258.1	100%	3	446
						PF00271	5.49	20	55

				1.8	conserved C-terminal domain				
HTDAE43	971582	9597		blastx.14	(AF144054) apoptosis related protein APR-4 [Homo sapiens]	gi 4868437 gb AAD31316.1 AF144054_1	53%	526	296
HTGCH58	909849	5895		HMMER 2.1.1	PFAM: RhoGAP domain	PF00620	91.4	420	797
				blastx.14	carboxyl terminus of the predicted protein shows 1 comes from this gene; cDNA EST EMBL:D32994 comes from this gene	gi 3874826 emb CAA86318.1	37% 44% 61%	420 657 771	605 758 809
HTGDM65	967158	5918		blastx.14	SH3 domain binding protein [Rattus norvegicus]	gi 1185397 gb AAA87791.1	39% 50% 39% 47% 39% 28% 40%	127 186 278 186 278 337 260	59 139 210 136 210 263 195
HTGDT91	974962	5921		HMMER 2.1.1	PFAM: SpoU rRNA Methylase family	PF00588	107.6	315	638
				blastx.14	alternate gene name yibK [Escherichia coli]	gi 466744 gb AAB18583.1	100% 100% 76% 81%	315 531 457 497	467 638 495 529
HTGDW96	967030	5926		HMMER 2.1.1	PFAM: Domain of unknown function	PF01784	130.2	334	711
				blastx.14	(AL034490) similar to yeast ngg1-interacting factor 3	gi 4008560 emb CAA22481.1	60% 43% 37%	1087 460 385	1275 660 513

HTGEL46	685425	5936	HMMER 1.8	[Schizosaccharomyces pombe]			61%	361	414
				PFAM: Phorbol esters / diacylglycerol binding domain	PF00130		28%	970	1065
HTGEQ11	967047	5944	HMMER 2.1.1 blastx.14	PFAM: Cytosol aminopeptidase family	PF00883		58%	1312	1347
				aminopeptidase A [Escherichia coli]	gi 1054725 emb CAA 60164.1		7.26	398	433
HTGER72	683469	5949	HMMER 1.8	PFAM: Src homology domain 3	PF00018		95%	27	305
HTGFZ03	923443	5968	HMMER 2.1.1 blastx.14	PFAM: RNA polymerase beta subunit	PF00562		83%	320	391
				(AF025424) RNA polymerase I 127 kDa subunit [Rattus norvegicus]	gi 2739048 gb AAB9 4600.1		88%	1	27
HTGGL23	974590	5973	blastx.14	(AE000218) putative adhesion and penetration protein [Escherichia coli]	gi 1787452 gb AAC7 4286.1		2.4	174	203
HTHCB68	660309	5996	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099		30.7	21	110
HTJAB35	880424	9601	HMMER 1.8	PFAM: Ank repeat	PF00023		76%	3	275
HTJMT23	948518	6056	blastx.14	(AF182426) arylacetamide deacetylase [Rattus norvegicus]	gi 5923874 gb AAD5 6394.1 AF182426_1		87%	3	443
HTOAK34	966800	6081	HMMER	PFAM: Eukaryotic protein	PF00069		3	162	209
							35.64	242	325
							58%	2	160
							32.41	1020	1190



			1.8	kinase domain (AF084205) serine/threonine protein kinase TAO1 [Rattus norvegicus]	gi 3452473 gb AAC7 1014.1	75%	954	1190
HTODG16	909952	6108	HMMER 2.1.1	PFAM: RasGEF domain	PF00617	148.5	4	402
HTOFT34	527144	6146	HMMER 1.8	CDC25 [Saccharomyces kluuyveri] PFAM: Phorbol esters / diacylglycerol binding domain	gi 171187 gb AAA34 479.1  PF00130	34% 4.53	13 235	399 264
HTOHL35	537364	6173	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	6.52	4	33
HTOIY09	836003	6201	HMMER 1.8	PFAM: Insulin/IGF/Relaxin family	PF00049	7.08	61	123
HTSHF47	720403	6229	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	7.82	105	140
HTSHM38	972248	6230	HMMER 2.1.1	PFAM: EGF-like domain	PF00008	72	299	406
			blastx.14	(AB011532) MEGF6 [Rattus norvegicus]	gi 3449294 dbj BAA3 2462.1	88% 50% 53% 42% 42% 43% 40% 46% 70% 66%	287 278 320 299 287 290 341 287 114 413	538 460 466 460 442 427 481 415 173 457

[illegible]

1484

HTWCG65	869547	6260	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	60%	251	280
HTWEY30	918641	6299	blastx.14	(AF036548) RGC-32 [Rattus norvegicus]	gi 3800742 gb AAC6 8839.1	15.45	220	306
HTWJA59	812705	6314	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	88%	613	434
HTXCY84	924996	6359	HMMER 2.1.1 blastx.14	PFAM: Aldehyde dehydrogenase family (AF038838) proline dehydrogenase [Klebsiella aerogenes]	PF00171	4.95	172	219
HTXDW14	966588	6366	blastx.14	(AB029335) HrPET-3 [Halocynthia roretzi]	gi 2766693 gb AAB9 5478.1	23.9	104	217
HTXDX61	784768	6367	HMMER 2.1.1	PFAM: Amidase	gi 5360271 dbj BAA8 1908.1	78% 45% 41%	47 16 20	241 48 70
HTXFN69	869397	6394	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	54% 45%	869 773	777 663
HTXGL73	529745	6403	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	123.2	61	330
HTXJI68	912611	6420	blastx.14	RAB14 [Rattus norvegicus]	gi 206535 gb AAA41 994.1	6.76	72	137
HTXJM73	783572	6425	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	2.21	144	176
HTXKQ55	947789	6453	HMMER 2.1.1	PFAM: Peptidase family M3	PF01432	97% 60% 59% 52%	230 367 482 373	370 450 547 429
						2.87	97	123
						50.1	3	299

HTXNY74	918076	6525	blastx.14	mitochondrial intermediate peptidase precursor [Homo sapiens]	gi 1763642 gb AAC51231.1	96% 100%	3 335	302 367
HTXPT68	870074	6555	blastx.14 HMMER 2.1.1	(AF078856) p47 [Homo sapiens] PFAM: NOL1/NOP2/sun family	gi 5531827 gb AAD44488.1  PF01189	89% 96%	93 2	530 94
HTXQC36	961161	6560	blastx.14	(AB012223) ORF2 [Canis familiaris]	gi 2981631 dbj BAA25253.1	51% 57% 60% 42%	9 326 145 170	143 382 174 247
HTXRM86	975072	6575	HMMER 2.1.1 blastx.14	PFAM: Prokaryotic DNA topoisomerase DNA topoisomerase III (EC 5.99.1.-) [Escherichia coli]	PF01131 gi 1742870 dbj BAA15551.1	99% 51% 40%	243 177 3	446 440 158
HTXSB88	914627	6577	blastx.14	(AF077042) 30S ribosomal protein S7 homolog [Homo sapiens]	gi 4689132 gb AAD27775.1 AF077042_1	84%	559	771
HTXSR92	973095	6579	blastx.2	(AB016962) synGAP-b1 [Rattus norvegicus]	dbj BAA74972.1	60% 55%	302 1	421 60
HUJAM39	911399	6586	blastx.14	(AF051325) SH3 domain containing adaptor protein [Homo sapiens]	gi 4091782 gb AAC99298.1	46% 32%	170 709	310 885
HUJCM08	957784	6589	blastx.14	(AF015950) telomerase reverse transcriptase [Homo sapiens]	gi 2330017 gb AAC51672.1	100%	2	244
HUUA V06	966816	6597	blastx.14	(AF151854) CGI-96 protein [Homo sapiens]	gi 4929661 gb AAD34091.1 AF151854_1	88% 100% 68% 36%	595 464 537 561	521 396 481 487

HWAAF66	908541	6612	HMMER 2.1.1 blastx.14	PFAM: KRAB box	PF01352	65.3	90	278
				repressor protein [Homo sapiens]	gi 2789430 dbj BAA24380.1	54%	60	212
HWAAAY03	923734	6619	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.21	332	373
HWACA38	943074	6637	HMMER 1.8 blastx.14	PFAM: Bacterial mutT protein	PF00293	3.68	344	376
				(AL033536) predicted using Genefinder; similar to 1 1 1 elegans]	gi 3947651 emb CAA22138.1	39% 52%	251 766	433 834
HWADF26	957347	6656	HMMER 1.8 blastx.2	PFAM: Lectin C-type domain short and long forms	PF00059	104.26	859	509
				(AF175206) lectin-like receptor F1 [Homo sapiens]	gb AAF37804.1 AF175206_1	100%	3	596
HWAEN20	868490	6691	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	6.01	251	313
HWAFW39	947915	6697	HMMER 2.1.1 blastx.2	PFAM: Peptidase family M1	PF01433	79.5	200	367
				(AF106037) adipocyte-derived leucine aminopeptidase [Homo sapiens]	gb AAF07395.1 AF106037_1	96%	200	367
HWAFX39	907631	6698	blastx.14	Zn-binding protein [Pleurodeles waltl]	gi 213868 gb AAA49614.1	46% 50%	118 19	354 120
HWAGM33	888685	6710	HMMER 2.1.1	PFAM: Plexin repeat	PF01437	25.8	898	1035

HWAGX37	959586	6711	blastx.14	unknown protein [Homo sapiens]	gi 1196433 gb AAA88038.1	47%	215	283
						34%	535	639
						42%	409	471
						29%	295	396
HWAHU10	960646	6714	blastx.14	retinoid X receptor interacting protein [Mus musculus]	gi 709961 gb AAC52167.1	62%	1215	583
						66%	513	343
						45%	642	412
						44%	1272	1198
						66%	1824	1798
HWAHS94	909667	6715	blastx.14	(AF151363) Cdc42 GTPase-activating protein [Mus musculus]	gi 5020264 gb AAD38043.1 AF151363_1	63%	278	484
						75%	487	510
HWBAL44	959449	6720	blastx.14	(AF151877) CGI-119 protein [Homo sapiens]	gi 4929707 gb AAD34114.1 AF151877_1	100%	531	424
HWBAQ16	868363	6722	HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.8	857	898
HWBBR65	747723	6741	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.15	185	205
HWBDM24	963498	6771	blastx.14	(AJ388555) hypothetical protein [Canis familiaris]	gi 5441611 emb CAB46854.1	83%	908	997
						100%	990	1040
						88%	837	863
HWBEX27	682583	6785	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	38.64	184	336
HYAAF33	915050	6820	blastx.14	(AF121858) sorting nexin 8 [Homo sapiens]	gi 4689256 gb AAD27831.1 AF121858_1	81%	273	434
						96%	217	306
						36%	172	270
HYAAS08	926017	6831	blastx.14	ORF-3 protein [Pseudorabies virus]	gi 334072 gb AAA47471.1	62%	203	156
						34%	84	7
						36%	125	69
						63%	150	118

HYABP53	971448	6848	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047		37%	282	211
HYABB43	800006	6860	HMMER 2.1.1 blastx.2	PFAM: Alpha-2- macroglobulin family alpha-2-macroglobulin [Mus musculus]	PF00207 gb AA39508.1		27.8	257	427
HYAAU65	909956	6863	HMMER 2.1.1	PFAM: RasGEF domain	PF00617		90.9	206	27
HWBEG18	909798	6883	HMMER 2.1.1 blastx.14	PFAM: EF hand (AF106071) ras activator RasGRP [Homo sapiens]	PF00036 gi 4038292 gb AAC9 7349.1		67%	263	36
HWBCS08	909031	6897	HMMER 2.1.1 blastx.14	PFAM: B-box zinc finger. (AF119043) transcriptional intermediary factor 1 gamma; TIF1 gamma [Homo sapiens]	PF00643 gi 4325109 gb AAD1 7259.1		47	2	112
HWBAQ71	944080	6918	blastx.2	predicted using Genefinder [Caenorhabditis elegans]	emb CAA97423.1		33.3	505	591
HWAFG12	969605	6934	blastx.14	(AF071081) proline-rich mucin homolog [Mycobacterium tuberculosis]	gi 5305335 gb AAD4 1594.1 AF071081_1		71%	698	889
							59%	382	597
							46%	103	420
							70%	604	684
							48%	2	142
							66%	619	654
							32.5	263	388
							92%	2	562
							34%	141	464
							34%	112	17
							50%	195	142
							28%	398	264
							40%	365	300



								34%	219	142
								44%	154	101
								32%	374	300
								34%	365	297
								34%	332	264
								63%	338	306
								29%	365	294
								38%	314	261
HWAF47	94858	6938	blastx.2	(AF010144) neuronal thread protein AD7c-NTP [Homo sapiens]			gb AAC08737.1	59%	208	14
								50%	178	14
								40%	253	80
								77%	78	13
								52%	93	25
								76%	249	211
								42%	221	165
								75%	240	205
								42%	237	160
								90%	357	328
								25%	248	168
HWAEU35	887166	6942	HMMER 2.1.1 blastx	PFAM: Immunoglobulin domain	PF00047			23.2	40	273
				CMRF-35 antigen [Homo sapiens]	emb CAA46948.1			55%	7	162
								59%	169	279
								60%	400	474
								38%	346	399
								42%	316	372
HWAE71	931547	6946	HMMER 1.8 blastx.2	PFAM: Ras family (contains ATP/GTP binding P-loop)	PF00071			147.95	116	475
				rab-related GTP-binding protein [Rattus	gb AAA42000.1			98%	86	493
								80%	477	569

HWAE08	958115	6947	norvegicus] PFAM: Spectrin repeat	PF00435	29.5	3	215
			HMMER 2.1.1				
			blastx.14	gi 5262574 emb CAB 45729.1	69% 70% 31% 29%	12 381 18 228	209 452 209 308
HWACY70	756888	6956	PFAM: RIO1/ZK632.3/MJ0444 family	PF01163	96	280	552
			HMMER 2.1.1				
HWABG11	949088	6971	PFAM: Glucosamine-6- phosphate isomerase	PF01182	225.7	67	381
			blastx.2	emb CAA03416.1	91%	67	480
HUUDR34	944903	6984	unnamed protein product [unidentified]	gi 4826478 emb CAB 42896.1	82% 100% 77% 100%	2 571 552 596	550 594 578 616
			blastx.14				
HUUCJ02	940813	6986	(AF132984) nuclear pore complex interacting protein NPIP [Homo sapiens]	gi 4959568 gb AAD3 4394.1 AF132984_1	99% 89% 71% 58% 87% 100% 54% 60% 81% 83% 40% 100% 90%	770 417 300 226 278 261 261 258 181 152 229 152 192	417 250 187 119 231 226 196 199 149 117 149 126 163
			blastx.14				

HTXOO15	869261	7011	HMMER 2.1.1	PFAM: Ubiquitin family	PF00240	66%	300	274
HTXLS08	958357	7023	blastx.14	(AF090989) high-risk human papilloma viruses E6 1 alpha [Homo sapiens]	gi 4151328 gb AAD1 2543.1	48% 68% 41% 57% 70% 27%	745 1006 1 511 427 580	987 1146 237 645 477 645
HTWKB07	952841	7085	blastx.14	(AF003535) ORF2-like protein [Homo sapiens]	gi 2197085 gb AAD0 4635.1	60% 75% 50% 33% 70%	25 259 205 36 167	84 294 258 116 196
HTWJH08	790185	7087	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	61%	197	51
HTWJH08	846554	9615	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	61%	197	51
HTWJF50	911448	7089	blastx.14	myosin I [Rattus norvegicus]	gi 3724141 emb CAA 50871.1	48% 53% 55% 46% 39% 50%	1009 334 732 863 40 686	1428 681 851 1012 108 715
HTWQ19	586124	7091	HMMER 2.1.1	PFAM: Sema domain	PF01403	62.9	14	184
HTOIA82	844319	7198	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.25	50	82
HTOHI14	659280	7204	HMMER	PFAM: Asparaginase	PF01112	20.7	140	217

HTODM08	960113	7222	2.1.1 blastx.14	(AF106069) deubiquitinating enzyme [Homo sapiens]	gi 5814097 gb AAD5 2099.1 AF106069_1	33%	5	367
HTHBY73	946168	7282	blastx.2	(AK001868) unnamed protein product [Homo sapiens]	dbj BAA91951.1	52% 45%	4 162	183 332
HTGEX10	963862	7305	HMMER 2.1.1 blastx.14	PFAM: SET domain	PF00856	105.2	580	960
HTGEA37	908606	7311	blastx.14	(AC005065) determined by GENSCAN prediction and 1	gi 4153862 gb AAD0 4721.1	65% 40%	601 337	1017 477
HTAIF22	910040	7364	HMMER 2.1.1 blastx.14	(AF001293) aiolos [Mus musculus] PFAM: RhoGEF domain	gi 2150044 gb AAB5 8795.1  PF00621	80%	1	216
HTAIF11	965738	7365	blastx.14	(AL022271) similar to Guanine nucleotide exchange 1 1 1 this g	gi 3876654 emb CAA 18349.1	64%	281	397
HTAEV23	959129	7369	HMMER 2.1.1 blastx.14	(AF061555) ubiquitin- protein ligase E3-alpha [Mus musculus] PFAM: WW domain	gi 3170887 gb AAC4 0165.1  PF00397	48% 50%	6 297	293 392
HTAEP05	932459	7370	blastx.14	This gene is novel. [Homo sapiens] Pro-Pol-dUTPase polyprotein [Mus musculus]	gi 603953 dbj BAA07 893.1  gi 2065210 emb CAA 73251.1	89%	823	359
						76% 48% 47% 44%	225 406 3 500	275 510 59 553

HTABK47	720684	7379	HMMER 2.1.1	PFAM: Monooxygenase	PF01360	77%	386	412
HSYCV01	940661	7408	HMMER 1.8	PFAM: Hydroxymethylglutaryl- coenzyme A reductase	PF00369	7.29	448	492
HSAWR08	959943	7458	blastx.14	(AL110271) hypothetical protein [Homo sapiens]	gi 5817084 emb CAB 53709.1	98%	123	287
HSAUL84	908440	7504	HMMER 2.1.1	PFAM: gag gene protein p24 (core nucleocapsid protein)	PF00607	43.3	105	302
HNHOF94	948720	7551	blastx.14	gag protein [Human endogenous retrovirus K]	gi 1780975 emb CAA 71418.1	83%	135	299
			blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60%	24	152
HNHNP81	928378	7554	HMMER 1.8	PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001	58.09	233	511
			blastx.2	(AF091575) olfactory receptor [Rattus norvegicus]	gb AAC64595.1	61%	236	505
HNHLC01	915363	7581	blastx.14	unknown protein [Homo sapiens]	gi 1196431 gb AAA8 8036.1	52%	502	618
			blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	46%	5	82
HNHGV62	743400	7603	blastx.2			40%	57	131
						36%	133	207
						61%	219	257
						46%	260	304
						62%	52	285
						76%	287	349

HNHGE31	698046	7624	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.3	83	109
HNHVF49	975415	7644	blastx.2	hypothetical protein (L1H 3' region) - human	pir B34087 B34087	81% 71% 90%	483 227 217	190 6 188
HNHGFH24	903741	7657	HMMER 2.1.1 blastx.14	PFAM: Sodium:neurotransmitter symporter family (AF075266) orphan transporter isoform B9 [Mus musculus]	PF00209 gi 3347930 gb AAC2 7761.1	37.2	208	306
HNHDF07	953883	7702	HMMER 1.8	PFAM: Fibronectin type III domain	PF00041	7.48	242	319
HNHDC29	904546	7704	blastx.14	contactin associated protein [Homo sapiens]	gi 1857708 gb AAB4 8481.1	98%	219	7
HNHCCI32	861673	7716	HMMER 1.8 blastx.2	PFAM: 7 transmembrane receptor (rhodopsin family) (AF112461) G protein- coupled receptor 57 [Homo sapiens]	PF00001 gb AAF27279.1 AF1 12461_1	133.17 100% 100% 100%	195 189 112 56	545 551 186 112
HNHCCI32	956105	9645	HMMER 1.8 blastx.2	PFAM: 7 transmembrane receptor (rhodopsin family) (AF112461) G protein- coupled receptor 57 [Homo sapiens]	PF00001 gb AAF27279.1 AF1 12461_1	133.17 100% 100% 100%	951	601
HNHBF47	949027	7731	HMMER 1.8 blastx.2	PFAM: Cadherin (AB028499) Flamingo 1	PF00028 dbj BAA84070.1	44.76 96%	668 409	522 666

[Mus musculus]		92%	5	259
		91%	666	923
		86%	243	398
		42%	412	660
		36%	370	660
		36%	412	660
		43%	669	896
		33%	355	699
		43%	666	884
		39%	648	890
		38%	20	247
		32%	11	253
		30%	361	648
		36%	14	235
		39%	654	884
		37%	14	247
		35%	26	247
		35%	666	878
		32%	412	699
		37%	672	854
		28%	433	708
		40%	270	380
		35%	270	380
		37%	270	398
		44%	270	371
		38%	270	371
		33%	264	362
		32%	683	829
		29%	2	262
		57%	723	764
		35%	270	374

HNHAF61	742116	7745	HMMER 1.8	PFAM: Cadherin	PF00028		39%	412	480
			blastx.2	(AF152473) protocadherin alpha C1 short form protein [Homo sapiens]	gb AAD43734.1 AF1 52473_1		46.67	330	461
							75%	81	677
							84%	173	364
							33%	87	686
							93%	1	84
							40%	10	75
HNHAF61	955094	9649	blastx.14	(AF152303) protocadherin alpha C1 [Homo sapiens]	gi 5456892 gb AAD4 3697.1		98%	325	1071
							40%	715	987
							42%	499	660
							32%	778	1023
							37%	724	867
							100%	225	275
							77%	176	229
							30%	496	684
							89%	269	325
							35%	895	1011
							40%	568	663
							36%	717	791
							50%	499	540
HNGOZ40	969158	7757	blastx.14	(AF155098) NY-REN-8 antigen [Homo sapiens]	gi 5360091 gb AAD4 2864.1 AF155098_1		78%	599	477
HNGNY02	918626	7769	HMMER 1.8	PFAM: FAD/NAD- binding domain in oxidoreductases	PF00175		4.43	366	440
HNGND01	915294	7778	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130		2.07	464	490
HNGMW65	950173	7781	blastx.2	(AF010144) neuronal thread protein AD7c-NTP	gb AAC08737.1		62%	340	143
							67%	340	248



					[Homo sapiens]				45%	417	247
									60%	345	247
									55%	80	3
									68%	81	25
									43%	200	111
									43%	414	346
									55%	205	152
									64%	392	351
									57%	202	125
									47%	86	18
HNGMD48	974358	7788	HMMER 1.8	PFAM: Cystatin domain	PF00031				6.93	269	349
HNGLY08	948825	7791	blastx.14	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	gi 4186073 emb CAA 09423.1			79%	219		392
HNGLL07	952236	7795	blastx.14	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386			41%	199		77
								71%	43		2
								83%	77		42
								72%	242		210
HNGKM74	942758	7801	HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505			5.95	437		526
			blastx.2	(AL117470) hypothetical protein [Homo sapiens]	emb CAB55945.1			40%	2		817
HNGIR10	964715	7837	blastx.14	NK10 [Mus musculus]	gi 506502 emb CAA5 6225.1			61%	196		2
								62%	193		2
								54%	199		2
								52%	196		2
								54%	193		2
								53%	199		2
								50%	193		2
								44%	196		8

								45%	193	2
								61%	199	92
								57%	196	83
								37%	178	11
								26%	217	2
								39%	115	2
								46%	181	104
								50%	232	197
								33%	309	256
								30%	306	238
HNGFF50	941480	7879	blastx.14	(AJ010949) calcium channel alpha-2-delta-C subunit [Mus musculus]	gi 4186073 emb CAA09423.1		78% 86%	285 986	130 921	
HNGEO79	951489	7897	HMMER 1.8	PFAM: IG (immunoglobulin) superfamily	PF00047		33.71	290	466	
			blastx	(AF143185) high affinity immunoglobulin gamma Fc 1	gb AAD34946.1 AF143185_1		54% 41% 77% 36%	287 404 230 140	385 520 283 214	
HNGEI11	967314	7902	blastx.14	pol polyprotein [Baboon endogenous virus]	gi 509838 gb AAA87332.1		70% 42% 53%	258 39 324	317 152 368	
HNGDM11	967512	7933	blastx.14	reverse transcriptase [Homo sapiens]	gi 439877 gb AAB02291.1		36% 50% 47% 20%	381 276 154 210	292 205 104 82	
HNGDA08	959964	7952	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098		5.01	261	284	
HNGAZ08	959977	7973	blastx.14	p40 [Homo sapiens]	gi 2072966 gb AAC51272.1		45% 40%	391 93	320 19	

[illegible]

HMSHE81	784966	8218	HMMER 2.1.1	PFAM: PX domain	PF00787	29.1	128	421
HMSDL70	909997	8240	blastx.14	(AF083331) kinesin-like protein KIF1B [Rattus norvegicus]	gi 3493139 gb AAC3 3292.1	100%	2	103
HMSBO95	796724	8258	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.61	273	302
HMMBL55	731523	8320	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.03	227	271
HMMAT08	959005	8327	blastx.14	DOCK180 protein [Homo sapiens]	gi 1339910 dbj BAA0 9454.1	49% 66%	137 310	301 426
HMCHZ77	771795	8350	HMMER 2.1.1	PFAM: Nucleoside transporter	PF01733	81.6	5	283
HMALZ77	856266	8362	HMMER 2.1.1	PFAM: Isochorismatase family	PF00857	88.5	2	232
HMAJL09	950168	8365	HMMER 1.8	PFAM: ADP-glucose pyrophosphorylase	PF00483	150.92	20	256
HMAIQ20	669436	8367	blastx.14	f270 [Escherichia coli]	gi 290545 gb AAA62 048.1	100% 100%	254 468	469 512
			HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.43	172	234
HMAIH15	956705	8368	blastx.2	Hypothetical protein MJ0456 [Escherichia coli]	dbj BAA35499.1	100%	3	203
HMAIA55	899404	8369	blastx.2	(AF027204) putative tetraspan transmembrane protein L6H [Homo sapiens]	gb AAB82947.1	35% 39%	188 601	532 789
HMADF74	944465	8377	HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	42.8	369	440

HMACV54	922354	8379	blastx.2	leucine-rich repeat protein [Arabidopsis thaliana]	emb CAA76000.1	34%	294	674
HMABD66	388074	8381	HMMER 2.1.1	PFAM: Aldose 1- epimerase	PF01263	116	418	176
HL YHK61	932994	8386	HMMER 2.1.1	PFAM: 60Kd inner membrane protein	PF02096	59.8	222	365
HL YHK34	703776	8387	blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	88% 95% 96% 82% 90%	133 489 33 723 398	420 686 131 809 487
HL YGQ11	966539	8401	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.18	436	519
HL YEA70	943886	8431	HMMER 2.1.1	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.45	96	134
HL YCF37	949401	8459	HMMER 1.8	PFAM: Dihydrodipicolinate synthetase family	PF00701	22.8	304	408
HL YBX91	790234	8463	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.84	1249	1326
HL MHL66	910804	8555	HMMER 2.1.1	PFAM: Zinc-binding metalloprotease domain	PF00099	3.14	710	754
				PFAM: Fibrinogen beta and gamma chains, C- terminal globular domain	PF00147	40.5	157	252
			blastx.14	(AF107253) angiopoietin Y1 [Homo sapiens]	gi 4378598 gb AAD1 9608.1	65% 72% 30%	157 333 41	252 365 100
HL CDA67	887375	8581	HMMER	PFAM: BTB/POZ domain	PF00651	101.9	160	504

HJPAY56	909242	8600	2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	39.9	78	146
			HMIMER 2.1.1	(AC004076) R30217_1 [Homo sapiens]	gb AAB97932.1	62%	3	212
			blastx.2			64%	3	206
						59%	3	200
						54%	3	206
						56%	6	206
						47%	9	212
						42%	3	233
						43%	18	212
						49%	3	191
						40%	21	212
						38%	3	206
						43%	21	191
						40%	3	212
						43%	12	212
						42%	3	149
						42%	3	149
						48%	6	161
						37%	69	212
						36%	3	149
						39%	166	234
						47%	172	234
						38%	172	234
						33%	172	234
						44%	181	234
						50%	181	234
						55%	181	234
						25%	154	234
						50%	181	234

HJPA60	586675	8604	HMMER 2.1.1	PFAM: Adenosine/AMP deaminase			77%	208	234
							44%	181	234
							55%	208	234
							46%	190	234
							78.6	96	533
HJBCZ05	925805	8611	HMMER 1.8	PFAM: TPR Domain		PF00962	12.67	205	291
			blastx.14	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]		gi 4809026 gb AAD3 0062.1	88%	520	840
							98%	85	357
							58%	798	869
							25%	151	258
HHEZO92	942859	8638	HMMER 2.1.1	PFAM: tRNA synthetase class II (G, H, P, S and T)		PF00587	59.7	94	450
			blastx.14	(AC002131) Similar to seryl-tRNA synthetase 1 [Arabidopsis thaliana]		gi 3157938 gb AAC1 7621.1	62%	97	306
							47%	325	507
HHEWX06	933879	8643	blastx.14	ORF 3 [Rattus norvegicus]		gi 57053 emb CAA29 033.1	32%	38	241
							53%	5	43
HHEPG59	925436	8681	blastx.14	IP63 protein [Rattus norvegicus]		gi 2764951 emb CAA 67705.1	58%	251	66
							52%	541	440
							50%	346	257
HHEMG02	917366	8704	blastx.14	similar to NIFS protein (nitrogen fixation) [Caenorhabditis elegans]		gi 722379 gb AAC46 685.1	67%	525	608
							56%	441	488
							53%	641	685
HHELA35	878217	8711	HMMER 2.1.1	PFAM: Beta-lactamase		PF00144	175.4	118	450
HHEKZ12	878267	8712	HMMER 1.8	PFAM: Beta-lactamases		PF00144	132.1	102	380
HHEAJ78	773538	8739	HMMER	PFAM: Helicases		PF00271	3.92	2	82

				1.8	conserved C-terminal domain				
HHEAA02	932265	8743		blastx.14	The ha1438 gene product is related to a C728 protein 1	gi 559715 dbj BAA07556.1	87% 60% 88% 100% 100% 88% 58% 57% 25%	53 35 519 563 491 441 567 448 41	445 103 569 592 517 467 617 489 160
HFSAG03	960973	8761		HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	6.39	454	365
HEOOA49	942561	8765		HMMER 2.1.1 blastx.2	PFAM: FAD binding domain Aip2p [Saccharomyces cerevisiae]	PF01565 gb AAA79142.1	115.8 73% 50% 42%	1 343 549	201 252 549 626
HEONO59	741361	8768		HMMER 2.1.1 blastx.2	PFAM: Fibronectin type III domain (AF117210) host cell factor 2 [Homo sapiens]	PF00041 gb AAD27814.1 AF117210_1	39.4 99% 97% 97%	508 331 23 707	582 702 253 847
HEONL09	961147	8771		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	9.17	96	152
HEOMX01	913683	8778		blastx.14	alpha-3 type IX collagen [Homo sapiens]	gi 1196421 gb AAC41947.1	40% 36% 31% 27% 32%	349 328 325 316 331	480 468 468 513 468



HDTJF05	931977	8804	blastx.14	polyprotein [Hepatitis C virus]	gi 464178 dbj BAA03581.1		34%	328	468
							61%	241	279
							35%	328	411
							41%	337	408
							77%	241	267
							63%	241	273
							58%	244	279
							66%	306	332
							35%	185	244
							28%	394	468
HDTIO74	933606	8805	blastx.14	(AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana]	gi 2842482 emb CAA16879.1		53%	394	438
							47%	168	218
							50%	49	90
							60%	208	237
							75%	258	281
							45%	148	5
HDTIO16	934151	8806	HMMER 2.1.1 blastx.14	PFAM: WD domain, G-beta repeat (AF072880) SOCS box-containing WD protein SWiP-1 [Homo sapiens]	PF00400		117.6	164	283
							99%	2	613
							85%	610	672
							70%	686	715
HDTDP02	919572	8831	blastx.14	(AF151872) CGI-114 protein [Homo sapiens]	gi 4929697 gb AAD34109.1 AF151872_1		76%	135	212
				PFAM: ATP synthase A chain	PF00119		85.33	165	350
HDTDD72	587710	8836	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099		2.43	201	218
HDTDDB37	587699	8844	HMMER 1.8	(AL117483) hypothetical	gi 5911963 emb CAB		46%	306	389
HDTCC55	934923	8846	blastx.14						

					protein [Homo sapiens]	55956.1		46%	453	542
HDTBD67	899636	8860	HMMER 1.8		PFAM: Laminin G domain	PF00054		35%	4	105
HDTBD67	902517	9731	HMMER 1.8		PFAM: Laminin G domain	PF00054		42%	105	167
HDTAA31	937609	8871	HMMER 1.8		PFAM: Core histones H2A, H2B, H3 and H4	PF00125		53.09	615	1004
HDTAA31	941948	9732	HMMER 1.8		PFAM: Core histones H2A, H2B, H3 and H4	PF00125		53.23	278	667
HDPXN01	915919	8899	HMMER 1.8		PFAM: Zinc-binding metalloprotease domain	PF00099		12.8	1331	1408
HDPUN39	957580	8916	HMMER 2.1.1 blastx.14		PFAM: HECT-domain (ubiquitin-transferase).	PF00632		12.8	1331	1408
					hypothetical protein 2 - human (fragment)	pir B38919 B38919		4.29	99	146
HDPSB10	961309	8928	HMMER 2.1.1 blastx.2		PFAM: Zinc finger, C2H2 type	PF00096		197.8	1783	1067
					(AF091457) zinc finger protein RIN ZF [Rattus norvegicus]	gb AAD22522.1 AF0 91457_1		66%	67	135
HDPRR24	914667	8932	blastx.14		(AF086837) snapin [Homo sapiens]	gi 4206088 gb AAD1 1417.1		61%	1	252
HDPRJ04	909040	8934	HMMER 2.1.1 blastx.2		PFAM: Zinc finger, C2H2 type	PF00096		98%	144	410
					zinc finger protein ZNF132 [Homo sapiens]	gb AAC50252.1		52.4	192	263
								40%	12	377
								36%	12	377
								46%	335	553
								47%	335	553

					47%	335	538
					35%	18	377
					34%	12	377
					41%	335	574
					34%	12	377
					38%	335	574
					31%	12	377
					44%	335	538
					28%	12	377
					43%	335	553
					30%	12	377
					37%	335	574
					31%	12	377
					41%	335	553
					31%	12	377
					49%	380	538
					36%	326	556
					28%	12	377
					30%	39	371
					36%	335	553
					35%	380	571
					37%	335	517
					27%	12	377
					34%	380	553
					33%	380	538
					26%	93	371
					33%	51	194
					36%	513	611
					50%	570	611
					30%	534	611
					69%	573	611

HDPQI68	955006	8939	blastx.14	(AC007258) Putative ATPase [Arabidopsis thaliana]			30%	534	611
							46%	573	611
							46%	573	611
							60%	582	611
							27%	513	599
							34%	303	365
							30%	513	611
							45%	292	354
							46%	573	611
							40%	327	371
							45%	544	576
							45%	544	576
							42%	200	490
							41%	530	646
							60%	523	582
							54%	155	187
HDPQF03	923120	8941	blastx.14	mitogen-activated protein kinase kinase (EC 2.7.-.-) 1	gi 5080816 gb AAD39325.1 AC007258_14	pir JE0363 JE0363	85%	700	83
							54%	771	700
							100%	803	774
							66%	823	788
HDPLT62	973945	8959	HMMER 1.8	PFAM: Neurotransmitter-gated ion-channel	PF00065		102.12	417	746
			blastx	GABA receptor rho-3 subunit precursor [Rattus norvegicus]	dbj BAA09322.1		78%	414	797
							92%	262	411
HDPGS45	921381	8989	blastx.14	(AC004893) similar to NEDD-4 (KIA0093); similar to P46934 (PID:g1171682) [Homo sapiens]	gi 3694664 gb AAC62434.1		87%	366	226
HDPGS16	909833	8991	HMMER	PFAM: Protein kinase C	PF00433				
							57.51	287	445

				1.8	terminal domain				
				blastx.2	(AJ245709) Akt-3 protein [Homo sapiens]	emb CAB53537.1	100%	236	460
HDPFZ70	709684	9003		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	100%	3	116
HDPFB03	936331	9015		blastx.14	(AF043726) PHD-finger protein [Mus musculus]	gi 4529845 gb AAD2 1792.1	13.5	662	745
HDPDD12	970592	9017		blastx.14	(AF000998) CLOCK [Mus musculus]	gi 2114488 gb AAC5 3200.1	38%	341	553
HDPDM62	454740	9031		HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	2.03	152	208
HCWKR86	784705	9089		HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.26	296	340
HCWFA35	908820	9114		HMMER 1.8	PFAM: DnaI, prokaryotic heat shock protein	PF00226	116.61	80	274
				blastx.14	Curved DNA-binding protein cbpA [Escherichia coli]	gi 1651491 dbj BAA3 6142.1	98%	68	364
HCUGN19	716989	9181		HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	8.05	98	151
HCUGL20	668913	9184		HMMER 1.8	PFAM: Ank repeat	PF00023	7.2	190	261
HCFNG10	848225	9310		HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	6.03	305	376
HCFMZ90	922112	9315		HMMER 1.8	PFAM: Beta-ketoacyl synthases	PF00109	194.57	291	872
				blastx.14	(AF021234) 3-oxoacyl- [acyl-carrier-protein]- synthase [Neurospora]	gi 2522482 gb AAB8 1078.1	57%	465	824
							56%	255	494
							41%	91	306

HCFMW71	920506	9316	HMMER 2.1.1	crassa] PFAM: Isopentenyl- diphosphate delta- isomerase	PF01772	55.5	198	362
HCFMJ37	955281	9321	blastx.14	homologue of yeast IPP isomerase [Homo sapiens]	gi 488750 emb CAA3 4890.1	42% 62%	198 95	407 199
HCFCG23	850426	9337	blastx.2	(AF161445) HSPC327 [Homo sapiens]	gb AAF29005.1 AF1 61445_1	89% 95% 100%	203 18 610	610 83 654
HBTA84	781946	9355	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	10.89	179	244
HBM7B85	923730	9390	blastx.14	PFAM: ATPases associated with various cellular activities (AAA)	PF00004	20.81	122	232
HBM7B89	912789	9415	blastx.14	(AF093403) 2-amino-3- ketobutyrate-coenzyme A ligase [Mus musculus]	gi 4093159 gb AAC9 9774.1	93% 100% 100%	3 261 217	182 317 258
HB7NB52	726475	9423	HMMER 1.8	Rab24 protein [Mus musculus]	gi 438164 emb CAA8 0472.1	95% 89%	287 96	412 152
HB7JLR37	849633	9437	HMMER 2.1.1	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	3.77	193	252
HB7JLR31	900883	9438	HMMER 2.1.1	PFAM: Ribosomal protein S26e	PF01283	232.2	2	325
HB7JX53	835733	9452	blastx.2	PFAM: Zinc finger, C2H2 type (AF185576) POZ/zinc finger transcription factor ODA-8 [Mus musculus]	PF00096	90	798	866
HB7JX53	835733	9452	HMMER	PFAM: IG	gb AAF03152.1 AF1 85576_1	68% 33% 36%	606 618 66	953 893 185
HB7JX53	835733	9452	HMMER	PFAM: IG	PF00047	9.2	157	207

			1.8	(immunoglobulin) superfamily				
			blastx.2	(AF161081) activatory receptor PIRIbeta [Homo sapiens]	gb AAD52965.1 AF1 61081_1	90%	157	216
HBJJT12	894345	9453	HMMER 2.1.1	PFAM: Homeobox domain	PF00046	64	201	283
HBJJH60	930448	9461	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	1.57	181	204
HBJHX73	971377	9466	HMMER 1.8	PFAM: Laminin G domain	PF00054	13.48	931	1005
			blastx.14	contactin associated protein [Homo sapiens]	gi 1857708 gb AAB4 8481.1	50%	451	876
						59%	880	975
						33%	349	447
						42%	985	1041
						43%	916	963
HBJGT03	923800	9472	HMMER 1.8	PFAM: Cyclic nucleotide- binding domain	PF00027	8.96	41	100
HBJFC23	423885	9484	HMMER 2.1.1	PFAM: WD domain, G- beta repeat	PF00400	32.1	135	251
HBJAB15	660552	9522	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.72	145	171
HBDAD64	864344	9524	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.09	423	443
HBCCJ05	930956	9527	blastx.14	(AF164612) Gag protein [Homo sapiens]	gi 5802816 gb AAD5 1794.1 AF164612_1	48%	444	277
HBCBN51	952057	9532	HMMER 2.1.1	PFAM: alpha/beta hydrolase fold	PF00561	47%	536	486
			blastx.14	similar to alpha/beta	gi 3878848 emb CAB	43.4	358	564
						40%	741	1007

1513



[053] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[054] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altschul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than  $1.0e-07$ , and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent

identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[055] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[056] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[057] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

[058] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[059] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[060] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

*RACE Protocol For Recovery of Full-Length Genes*

[061] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A<sup>+</sup> or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[062] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[063] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

*RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes*

[064] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be

used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the immune/hematopoietic antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant immune/hematopoietic antigen.

[065] The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion

thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[066] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[067] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[068] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lacmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR<sup>®</sup>2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[069] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[070] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of immune/hematopoietic associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[071] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[072] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[073] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the immune/hematopoietic polypeptides of the present invention in methods which are well known in the art.



[074] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[075] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic

acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[076] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[077] Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[078] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the

invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[079] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[080] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to

the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[081] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[082] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[083] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower

stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[084] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[085] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[086] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10

polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[087] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[088] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifier SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[089] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of

one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[090] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b; where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for



example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

**TABLE 3**

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a      Range of b		Accession #'s
HAMHB21	11	961376	1 - 3744	15 - 3758	AI760827, AW408019, AI253155, AI349366, AI356482, AA814034, AW075920, AW407984, AI760691, AA251937, AI766650, AA352825, AA243541, AI934100, AA352840, H72208, H72106, AW193021, AL035530, AL035530, and AL035530.
HASAX16	12	573692	1 - 305	15 - 319	AL356513, AL356513, AL356513, AL358796, and AL358796.
HASAY74	13	526312	1 - 375	15 - 389	AC006479, AC006479, AC006479, and AC006479.
HASAY89	14	938768	1 - 849	15 - 863	AI240823, AC012580, AC012580, AC012580, AL133502, and AL133502.
HASAY94	15	521835	1 - 89	15 - 103	AL133216, AC024998, AC024998, AL365438, AL365438, AL390122, AL390122, AL133216, AL133216, AL133216, AC022702, AC022702, AC025796, AC025796, AF198096, AF198096, and AF198096.
HBCAL36	16	931477	1 - 553	15 - 567	AI908374.
HBCAL39	17	964871	1 - 587	15 - 601	AL117337, AF205588, AL022345, AL022345, AL022345, AL161931, AL161931, AL161931, AL354975, AL354975, AL354975, AL355583, AL355583, AL355583, AL023808, AL023808, AF205588, AF205588, AF205588, AL117337, AL117337, and AL117337.
HBCAM74	18	864366	1 - 437	15 - 451	AA642815.
HBCAR79	19	573989	1 - 415	15 - 429	AC021215.
HBCAS69	20	669802	1 - 274	15 - 288	
HBCAT17	21	503573	1 - 385	15 - 399	AI150061, AA382210, AC011448, and AC011448.
HBCAT63	22	573993	1 - 224	15 - 238	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCBM52	23	932514	1 - 657	15 - 671	AA312172.
HBCBX12	24	861018	1 - 219	15 - 233	AB023431, AC005954, AC005954, and AC068475.
HBCBZ05	25	922800	1 - 713	15 - 727	
HBDAC79	26	935414	1 - 612	15 - 626	AA904376, H23157, AA663798, AA359944, AA448036, R61429, H09004, AA309011, AF126245, AP001785, and AP001785.
HBDAD04	27	614849	1 - 375	15 - 389	AI057188, AW273323, C15735, AI932257, AI028587, AI940493, AW043720, AW021811, AA858079, AW197210, AI791278, AA508647, C15853, AA181800, AW043729, AW008982, AI918922, AI985340, AA031428, AA282285, AC007392, Z82198, AL031121, AL121840, L24095, AC004882, AC005529, AC002070, AC008984, AL132985, AL049781, Z72006, AC005881, AL079305, AP000263, AC005888, AC003080, AC004935, AL035667, AC005610, AP000036, AC005186, AC004842, AL035696, AC003661, AC004503, AC009263, AL023581, AC003009, U41096, AL021368, AP000567, AC004933, AC003975, AP000494, AL008638, AF015262, AL049833, AL034350, AL031010, AJ229043, AP001069, AC006288, AL049561, AL024507, AC005701, AP000100, AC005792, AP000566, AL023283, AC011594, AC006377,

						AL031684, AC008014, AP001038, AF064864, AP001037, AF165176, AC005993, AP001043, AL078602, AC007073, AL133512, AC005367, AC007751, AC004850, AC006928, AC009028, Z83823, AC003089, AL008715, AC007372, AL049837, AL078612, AF124730, AC006032, AF207955, AC008154, AL021395, AC005076, AC005886, AC008072, AC005036, AC004783, AC004002, AC006256, AL133485, AC006353, AC002485, AF205890, AC004106, AC004169, Z74696, AC006263, AC006384, AC006972, AL031767, AC006368, AC004158, and Z95152.
HBDAF51	28	725481	1 - 496	15 - 510		N47629.
HBDAF61	29	864338	1 - 794	15 - 808		AC003963.
HBJAB59	30	557972	1 - 425	15 - 439		
HBJAC23	31	529753	1 - 234	15 - 248		AA313748, AC008013, AC006432, and Z61963.
HBJAG72	32	722723	1 - 504	15 - 518		
HBJAJ91	33	677397	1 - 307	15 - 321		
HBJAJ75	34	953840	1 - 301	15 - 315		AL133163.
HBJAJ85	35	675904	1 - 105	15 - 119		AC002450.
HBJAV57	36	527998	1 - 387	15 - 401		AC004976.
HBJAY76	37	527908	1 - 286	15 - 300		
HBJAY91	38	828026	1 - 276	15 - 290		
HBJBM14	39	781398	1 - 306	15 - 320		
HBJBR94	40	527903	1 - 331	15 - 345		
HBJBU55	41	527112	1 - 349	15 - 363		
HBJCD43	42	714390	1 - 187	15 - 201		
HBJCD88	43	697628	1 - 446	15 - 460		
HBJCJ68	44	823468	1 - 216	15 - 230		
HBJCO81	45	527711	1 - 290	15 - 304		
HBJCR51	46	847946	1 - 327	15 - 341		AA766781, and AA352756.
HBJCR90	47	527702	1 - 318	15 - 332		
HBJDL73	48	531104	1 - 218	15 - 232		AL117593, and AC007401.
HBJDN14	49	856216	1 - 401	15 - 415		AA249870, and AF205935.
HBIDO70	50	752830	1 - 523	15 - 537		
HBIDP32	51	573846	1 - 263	15 - 277		
HBIDP41	52	494836	1 - 374	15 - 388		
HBIDQ75	53	847935	1 - 516	15 - 530		
HBIDT05	54	932302	1 - 86	15 - 100		
HBIDT47	55	573728	1 - 214	15 - 228		
HBIDW23	56	919383	1 - 447	15 - 461		AL078584.
HBIDW36	57	573847	1 - 498	15 - 512		

HBJDX18	58	795732	1 - 544	15 - 558	T94994, and AC007546.
HBJDX51	59	716395	1 - 391	15 - 405	
HBJEA22	60	674872	1 - 312	15 - 326	
HBJEA25	61	589249	1 - 498	15 - 512	AA912740, AA488771, T99916, AA370641, AA376428, AA488991, AA091598, D81695, AA305205, AA053093, AI082436, AA779219, AI041880, AI652229, AI216294, AI037847, AA319426, AA224141, AW392797, AI240672, AA160646, AW403677, AL037869, AI240700, AA314410, U91327, AF026293, and AF026166.
HBJEA44	62	973376	1 - 447	15 - 461	T86098, and AL031589.
HBJEA65	63	934994	1 - 543	15 - 557	
HBJEA90	64	895961	1 - 739	15 - 753	AA888592, AA489084, D80258, D80014, T11417, D59503, D59627, D81111, D58101, D80064, C14227, D58246, C06015, C14407, AI557751, AI535686, AI557774, AA514184, T03048, D51079, D80227, AW377671, C14298, D80269, D59695, D80168, D59467, AI535959, D50979, F13647, C14014, D80133, AA809122, D51213, D80188, D80522, D80043, D80378, D45273, D59502, D52291, D80195, AA305578, C03092, C15076, D80164, D59275, D80038, C14389, C14331, D80247, D80157, D81026, D51799, D80439, D51103, H67854, D80251, D58283, D80949, AA514188, D59859, D59610, D80022, D80166, D51423, D59619, D80210, D80391, D80240, D80253, D80045, C14344, D59787, D50995, AA305409, D59551, D81030, D80212, D80268, D80366, AW367950, D80196, D51022, H67866, D80219, AW178893, D57483, D80193, D59927, D80248, D59889, D51759, D80302, AW360834, D51060, D59317, D80241, D80024, AA514186, D59474, D45260, D60214, C14973, AI525237, AW177440, D51221, T03116, D59653, C14429, AW378539, AI525917, AW360817, C75259, AI525920, D60010, C14077, AW177505, AW375405, D59373, C14957, AI525227, AI525242, AW360811, C14046, C16955, C05695, AW178907, AI525923, AW178908, D80228, AI525235, T02868, AW366296, AW178906, AW360844, Z33452, AA285331, T03269, AI525912, AW179328, T48593, Z21582, AW375406, AW378534, AI525925, AI525215, AW179332, AW377672, AW360841, AW179023, AW178905, AW177731, AW378528, AW178762, AW179019, AW378533, AW378532, AW352120, C05763, AW352117, T02974, AW377676, AW178914, C04682, AW378542, AW360855, AW178774, AW176467, N66429, D51053, AW179020, AW352171, AW178980, AW352170, D51250, AW177733, AW378525, AW179024, AW352163, AI525222, AW179018, C13958, D31458, AW178781, AI535961, AI525928, AW378543, AW177728, AW369651, AW178986, AW177456, AW178911, AW378540, Z30160, AW178775, AW178909, AW179004, AW179329, AW179009, AW178754, AW352158, AI525228, H67858, AA305720, AW177508, AW177734, AW177497, AW179012, AI910186, AW177722, AI525216, AI525238, AI535665, AI525903, AB002449, AR016808, A82595, A84916, AB028859, AR060385, AJ132110, AR008278, AF058696, A62300, A62298, AR018138, I14842, AR054175, I50126, I50132, I50128, I50133, AR008277, AR008281, X64588, X68127, A70867, AR062872, I82448, I79511, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A63261, A43190,

						AR038669, A25909, A64136, A68321, AR066488, AR008443, Y09669, AR066487, A67220, D89785, A78862, D34614, A30438, AF123263, AR016691, AR016690, U46128, D88547, AR032065, AJ000347, D50010, AR008408, and AR060133.
HBJED66	65	787251	1 - 161	15 - 175		
HBJEE29	66	888625	1 - 511	15 - 525		AA360671, and AL035652.
HBJEE30	67	531103	1 - 413	15 - 427		AA806058.
HBJEH70	68	971161	1 - 65	15 - 79		
HBJEI42	69	669495	1 - 410	15 - 424		
HBJEJ21	70	671201	1 - 291	15 - 305		
HBJEJ29	71	693490	1 - 411	15 - 425		AC002126.
HBJEJ83	72	847920	1 - 414	15 - 428		AA760836, and AW085046.
HBJEO29	73	693491	1 - 323	15 - 337		
HBJEP15	74	847843	1 - 363	15 - 377		AC005580.
HBJEP73	75	764573	1 - 320	15 - 334		
HBJER19	76	953804	1 - 249	15 - 263		
HBJES44	77	715846	1 - 608	15 - 622		W72060, W76253, AW291566, AI360806, AI871850, and AF086367.
HBJET76	78	527553	1 - 648	15 - 662		AA625290, and AI394096.
HBJET94	79	794343	1 - 258	15 - 272		AL133485.
HBJEW15	80	507534	1 - 650	15 - 664		
HBJEZ09	81	573781	1 - 276	15 - 290		
HBJEZ16	82	421567	1 - 350	15 - 364		
HBJEZ39	83	690479	1 - 320	15 - 334		T11506, AA490380, AA280331, AA233664, AA233243, AA232989, N49790, AI886810, AI660641, AI707610, AA243850, AA001344, AI814340, AI718247, AA897648, AA714834, AI499266, AI190321, AI832024, AI718088, AI718693, AI014672, AI091271, AW169874, AI078790, N52465, AI245448, AA811481, AI057060, AA744777, AA642417, N49687, AA233550, and AI222478.
HBJFC51	84	725818	1 - 484	15 - 498		AA303049, AA482928, F30650, AI915081, AA349606, AA832175, AW104788, AI962030, AA237098, H29914, AL119555, AA599423, AA878431, AI452836, AA613624, AW117860, M62259, AI659023, AA719523, AA632479, AA643770, AA632556, AI144081, AW302711, AW301906, AW302753, AA127426, AA493503, AA173342, AA664604, H69515, AI053560, N90460, AA837000, AA481887, AA804187, AA720732, H86106, AA394066, AI865807, AI701959, AA467988, AA586656, AA468051, AA992877, AA911515, AA515728, AW068316, AW188742, AI369580, AI354847, AA323085, C16659, AA995827, F24728, R98218, AA302817, AI653776, AA492313, AC003007, AC005632, AL133163, AC007371, AC007011, AL121754, AC005011, AF001549, Z98304, AC004383, AC006312, AC005696, AC005488, AC005412, AC006088, AL049778, AC005682, AC005544, AL021937, AC006515, AL049636, AC004887,

					AL034417, AC004796, AC004895, AL121757, AL031587, AC006141, AL049829, AC002492, AL022345, AC012384, AC005484, AC005520, Z83844, AR036572, U91328, AC002302, AC004050, Z95114, AF001550, AL035079, AC004682, AL034421, AC005041, AL109627, AC002331, AC006432, AC002310, Z95115, AC004148, AC004671, AL121603, AL109952, Z92542, AJ010598, AC005808, AL022726, AC005300, AC004584, AC005874, AF134471, AC006117, AL049776, AC005089, AC004686, AC004941, AC005037, AC005049, M63796, AF050154, S42653, AC005015, AC003043, AL033527, AC006254, AC016830, Z77249, Z95116, AC005291, AL031672, AC006530, Z86090, AC002351, AL031577, AL096712, AC004106, AC004622, AC006077, AC005902, AC006111, AC006115, AF111169, AC005881, AC003109, AC016027, AC005088, AC006208, AC007546, AC003681, Y14768, AC007055, AC005839, AL078639, AL080243, AC010197, AC006013, AP000505, AC006112, AL020993, AC006387, AC000082, AL031005, AL035683, AL049589, Z98742, AC006241, Y18000, AC005932, AC007676, AF053356, AL022238, AC007314, AL031680, AL022328, AL034429, AC006101, AC008372, AC005377, U95742, AC005231, AL121652, AC006480, AL031118, AC002365, Z83840, AC010170, AC007421, AF042090, AC006454, AL021940, AC009247, AC002119, AL022336, AC004815, AC007386, AC004531, Z97055, AL022302, AL022322, AP000547, AC006035, AL035405, AC004042, AC007216, L44140, AL031281, AJ246003, AL049874, AC007637, AC000120, Z77852, AL035530, Z83826, Z99128, AL096702, AC005305, AL121655, AC006441, AC002425, AL049843, AL031666, AL049872, AF134726, AC005562, AC007461, AC000353, AP000503, AL079342, AC004491, AC004797, Z97054, AL022320, AC005046, AC002553, AF196970, AC006121, AC005754, AC006486, AC004859, AC009069, AC005746, AL008730, AP000251, AL049697, AC006449, AC007993, Z81369, AC003093, AL021154, AF207550, AC012331, AL034451, AP000030, AP000134, AC005971, AC006011, AL133246, AL132985, AC000097, AC007878, AC005261, AL079295, AL031602, Z98949, AC004694, AC005288, AC006014, AC006547, AC006539, AP000558, AC005104, AC008044, AC004837, AB018307, AC004883, AC006360, AC003950, AC007406, AL021707, AC007773, AL121658, AP000692, AL035458, AL033392, AC004254, AL034548, AC003010, Z75888, and AC004611, R94150, and T86024.
HBJFJ53	85	573806	1 - 412	15 - 426	
HBJFK55	86	625315	1 - 359	15 - 373	
HBJFL49	87	573970	1 - 417	15 - 431	
HBJFP58	88	738298	1 - 92	15 - 106	
HBJFV07	89	953795	1 - 122	15 - 136	
HBJFV59	90	573747	1 - 469	15 - 483	
HBJFW10	91	878778	1 - 405	15 - 419	AI762503, AI076416, AI243035, AI077308, AA700764, AA838319, AA868956, and AA187478.
HBJFW19	92	573765	1 - 339	15 - 353	AL133241, and U80460.
HBJFW20	93	573755	1 - 315	15 - 329	
HBJFW50	94	571351	1 - 276	15 - 290	AC004692, and AL031684.

HBJFW55	95	526682	1 - 259	15 - 273	AA283995, AI478915, AA283951, AI817564, AA283760, AA287165, AA286859, AA789104, and AC007068.
HBJFW68	96	573766	1 - 172	15 - 186	
HBJFW78	97	571347	1 - 380	15 - 394	
HBJFX57	98	573760	1 - 305	15 - 319	AL078584.
HBJFX81	99	529843	1 - 227	15 - 241	
HBJFY40	100	574095	1 - 450	15 - 464	
HBJFZ21	101	671191	1 - 235	15 - 249	
HBJFZ40	102	526679	1 - 437	15 - 451	
HBJFZ56	103	507530	1 - 329	15 - 343	
HBJFZ82	104	799685	1 - 325	15 - 339	AW005281, and AA558937.
HBJGR59	105	739095	1 - 551	15 - 565	
HBJGT72	106	957668	1 - 354	15 - 368	R50003, and R50021.
HBJGT92	107	919507	1 - 722	15 - 736	T84928.
HBJGU70	108	864063	1 - 474	15 - 488	
HBJGU78	109	920821	1 - 568	15 - 582	AI553853, AW079768, AI683616, AI536991, AI254730, AI356243, AI630887, AI829696, AI889334, AI344419, AW411027, AI391729, AI926804, AI282481, and AC004031.
HBJGV17	110	662725	1 - 475	15 - 489	
HBJGV22	111	613781	1 - 280	15 - 294	AA382068, D54550, H62431, H13929, AW176445, H80318, AW374298, AA418306, D54133, W01672, AL048935, AW374306, AW374317, W27179, AW176444, AW374310, W28706, AA234625, AR064426, AB004788, AF079221, AF067396, and AL132665.
HBJGV32	112	699075	1 - 377	15 - 391	
HBJHG04	113	836184	1 - 419	15 - 433	
HBJHG76	114	970826	1 - 476	15 - 490	AC008282.
HBJHI28	115	686278	1 - 314	15 - 328	M62004, and AL035410.
HBJHJ44	116	621723	1 - 359	15 - 373	AA207226, AL121444, AA019182, AA333455, W96231, AA331923, H08904, AA446987, and AW167577.
HBJHM50	117	724183	1 - 336	15 - 350	
HBJHM57	118	973257	1 - 419	15 - 433	
HBJHM76	119	715512	1 - 324	15 - 338	
HBJHN52	120	726570	1 - 334	15 - 348	
HBJHO11	121	964943	1 - 522	15 - 536	AW006288, AA977097, AI368637, AW197236, AI341105, AI650705, AI816278, AI590528, and R44511.
HBJHO60	122	975186	1 - 395	15 - 409	AL121820.
HBJHR56	123	686717	1 - 592	15 - 606	AA077952, AA482768, R96657, H79151, AW103981, AA169194, AA325699, M78177, AA626678, T69877, AA569387, AA332991, AA323749, AA326441, AA975645, AA357937,

AI434706, AA491762, AA568331, N29941, AW419262, H92005, AI000800, AA847509, AA973803, W95976, AA650623, AA862181, W95841, N87420, AA523837, AA693370, AA446657, AA630362, R38154, AL120483, AL138455, AI865400, AI184354, AL110444, AL039958, AI799642, N84245, R67504, Z98473, AW152064, AI051230, AA377730, AA780929, AI056964, AW338754, AA563818, AA587604, AL348611, N22424, AA704391, AI270343, N70103, N70020, AF041058, AC005745, AC007666, AF054569, AF042835, AF045999, AC007999, AC004938, AC004098, U66059, U07563, AC004821, AC002073, AC003101, AC004447, AL078475, AF009660, AC005166, AC006538, AC002286, AC005781, AC004854, AC005523, AC005940, AC002550, AP000961, AJ003147, AC000094, AC005838, AC000085, AC005023, AP000553, Z69366, AC007106, AC005815, AC016025, AF010238, AC007845, AC004972, Z49237, AP000404, AL021393, AC005409, AC003041, AL031680, Z93241, AL034402, Z84572, AC005632, U67825, U67826, AC004253, AC005414, AP000555, AC002347, Z82198, U67829, AL031774, Z60740, AC005031, AF044101, AP000350, AP000111, AP000043, AC001050, AC016026, AC006141, U80017, AC001228, AC010197, AC001531, AC007226, AC005015, AC010209, AC004895, AC006312, AL031283, AC005081, AC005291, AC004812, AF129107, AL096761, AL023579, AF051934, AL024507, AC008170, AJ229042, AC005531, AC007878, AC009516, AL035681, AC006128, AL035417, AF207550, AC003998, AL121653, AP000705, AC006581, AC008045, AL035249, AC002985, AC010077, AF091512, AC003086, AC002429, AL008582, and AC000385.					
HBJHT32	124	488736	1 - 321	15 - 335	
HBJHV93	125	881606	1 - 348	15 - 362	H68571, AA641767, and AA223840.
HBJHX08	126	958970	1 - 636	15 - 650	AL117342.
HBJHZ03	127	923733	1 - 491	15 - 505	
HBJHZ08	128	958969	1 - 373	15 - 387	
HBJJA19	129	920881	1 - 678	15 - 692	AA773280.
HBJJA92	130	494812	1 - 324	15 - 338	
HBJJD21	131	670642	1 - 415	15 - 429	AA524953, AI418334, AI079663, and AI807855.
HBJJD81	132	697594	1 - 433	15 - 447	AA864727.
HBJIL11	133	966701	1 - 414	15 - 428	AC007564, and AL049766.
HBJIL31	134	847865	1 - 527	15 - 541	
HBJIL53	135	971136	1 - 524	15 - 538	
HBJIL75	136	698405	1 - 399	15 - 413	
HBJIL88	137	721859	1 - 475	15 - 489	
HBJIO70	138	725097	1 - 424	15 - 438	
HBJIO79	139	774812	1 - 486	15 - 500	AI797163, AA761740, and AI278601.
HBJIR58	140	735365	1 - 330	15 - 344	AC002470, and AC007308.



HBJY20	141	669519	1 - 148	15 - 162	AR050541.
HBJY86	142	725084	1 - 652	15 - 666	
HBJB02	143	919379	1 - 435	15 - 449	AC007488.
HBJB04	144	878974	1 - 448	15 - 462	
HBJB11	145	965016	1 - 424	15 - 438	AC007319.
HBJB15	146	659920	1 - 512	15 - 526	N27511.
HBJB26	147	681342	1 - 359	15 - 373	<p>AI886860, RI7495, H96146, AA582791, AA069643, W02625, AA745628, T51436, AA593092, AI955111, AW169038, AI538214, N32496, AA243974, AA244061, AA629731, AA737235, AA745653, AI343169, W24944, H39038, AA856904, AA324108, T62233, AA279649, AA188676, AW410201, AI671077, W03120, AI570237, AA187624, AW404337, AA848002, AI418661, H81267, AA229422, F23294, T26476, AA523695, AA032001, AW341741, F30158, R32162, AA179304, AA452325, AA668715, AA215470, AC004644, AC006111, AC005618, Z95331, AC006146, AC002312, AL021918, AC005089, AC005086, AC002381, AL031295, AC004687, AC008101, U91322, AC016027, AC005874, AF134471, AC016830, AC005081, AF047825, AC006449, AC007425, AL049709, AL132777, AC005730, AC002352, AL031311, AC009946, Z83819, AC003108, AC004970, AC003982, Z98884, AC005969, AC006006, AL121658, AC005015, AC008079, AC004216, AC005193, AC007546, AC007731, AL139054, AC006241, AL121825, AC006312, AP000504, AL133485, AC005500, AC004794, AC002544, U95739, AC003098, AP000103, AP000032, AL133243, AL021155, AF129756, AC004253, AC006581, AC005921, AL035681, AL022165, AL109758, AC007227, AL021391, AF111169, AC006130, AC005666, AF196972, AC007537, AL096701, AL050332, AL022334, AL096678, AC006084, AP000216, Z98751, AC002301, U15422, AL034402, AC006251, AC003037, AL035684, AL034418, AC005006, AL121653, AF196779, AC006211, AL078593, AC005531, AC005237, U73634, AC007566, AC002126, AF064861, AC005562, Z83843, AC002565, AC006040, AC000379, AL021026, AC005018, AL035460, AC005317, AC007376, AC004883, AC005037, AC004821, AC005971, AF001550, AC002404, AL109865, AC005207, AL031584, AC000035, AC005332, AC004938, AB020864, AL133163, AP000694, AC003661, AF003626, AC005486, AP000516, AC004876, AL035086, AL135744, AC005815, AP000514, AC005663, Z98752, AL049780, AC007055, AC006441, AC005377, AC008372, AC009510, AL031778, AC005664, AF111168, AC005907, AL031281, AC005620, AL021707, AF126531, AC020663, AL022302, Y14768, U91321, AL109967, U91327, AC000025, AC006160, AC004386, AC007052, Z83826, AC005544, AC007011, AL031673, AC004150, U63630, AC003072, AC007686, AC005048, AC006132, AP000553, AF195658, AC004542, AC002316, AL022336, AF053356, AP000043, AP000111, AC004647, U91323, AC005082, AL133448, AL109952, Z97055, Z93017, AP000030, U07000, AC005768, AC019014, AL049832, AC007774, L78833, AC003119, Z84480, AC002365, AL121655, AC004223, AC005839, AC000353, U80017, AC005325, AL020997, AC005829, L78810, AC005632, AC005821, AL035413, Z69719, X69908, AC004933, AC002310, AC004983,</p>

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HBJB40	148	710873	1 - 519	15 - 533		AI205547.
HBJB61	149	741615	1 - 369	15 - 383		
HBJB62	150	743096	1 - 422	15 - 436		
HBJB74	151	765406	1 - 426	15 - 440		
HBJB78	152	489438	1 - 390	15 - 404		AA076977, and AA076965.
HBJD31	153	691780	1 - 452	15 - 466		R58828, AP000556, and AP000557.
HBJD90	154	712982	1 - 435	15 - 449		AL035090.
HBJH48	155	721473	1 - 357	15 - 371		
HBJN13	156	915977	1 - 414	15 - 428		W93924.
HBJQ29	157	666221	1 - 384	15 - 398		AA566068.
HBJS46	158	718894	1 - 589	15 - 603		
HBJU62	159	664298	1 - 415	15 - 429		
HBJU81	160	671611	1 - 375	15 - 389		AW449043, AA515418, E15648, E15652, and E15653.
HBJX04	161	949592	1 - 917	15 - 931		AI343473, AW294828, AI521275, and AI797793.
HBJX11	162	847854	1 - 403	15 - 417		
HBJX44	163	657242	1 - 561	15 - 575		T55674, N32741, and AL110337.
HBJKA75	164	682250	1 - 233	15 - 247		AA357979, AA357978, AA078137, AA078184, H63953, AI431513, AL036665, AA572974, AA626840, AA744095, AA774006, AI561043, AW029269, AI928890, H63220, AL037927, AA744423, AW105463, AA626595, T49133, AW151761, AA484191, D82321, AA513884, AW019964, F30158, AA317261, T51436, AA745628, AA515351, AA587826, AA573062, N34689, AA666066, AA053463, AA640252, AA434346, AA808847, AA669747, AI479148, AA478602, AA657374, AA564582, AI370170, AA599749, AA713705, AA653638, T06576, AA015948, AI635440, F32213, AA826102, AI860535, AW128881, AI590404, AW419389, AA741301, N30650, AW379218, AA610433, AA568314, H65308, AA699517, AI362694, AW151541, AA302978, AW085790, AW272815, AL079734, AI811647, R81176, AA653985, AW069412, U91320, AL121825, AC006065, AC006538, AL109827, Z98051, Z79997, AL078611, AC005081, AC005015, AC002457, AC003037, AC007057, AC005534, AC005037, Z99128, AC002316, AC005696, AC005192, AL035089, AC005772, AC005253, AL024498, AC005562, AL008715, AC005184, AF196779, AL122020, U96776, AL096677, AL109847, AC004815, AC002456, AC005231, Z83820, AC005284, AC004158, AL031594, AL049713, AF207550, AC003969, AC010200, AL109865, AC003973, AC005214, AL031776, AC007129, AL050318, AF121781, AC004797, AC006312, Z99716, AF053356, AC002073, AC004531, X64467, AC005031, AP000008, AL049570, AP000704, AC005828, AL031433, AC008115, AF001905,

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HBJKC52	165	974123	1 - 494	15 - 508	AI032590, AI568523, AA015921, AA020884, R08692, W01056, AI918922, AL049648, AC004805, U91322, AL079304, AL023581, AC005611, AC005243, AC007298, AL031056, AC000004, Z98884, AL049830, AP000246, AP000129, AP000207, AC005579, AC004525, and AC013256.
HBJKC56	166	735812	1 - 287	15 - 301	T96742, and H52012.
HBJKC86	167	974121	1 - 514	15 - 528	
HBJKD68	168	676330	1 - 238	15 - 252	
HBJKE63	169	744847	1 - 369	15 - 383	
HBJF06	170	935033	1 - 589	15 - 603	
HBJF86	171	714449	1 - 494	15 - 508	AW241714, and AA927828.
HBJKI26	172	489160	1 - 516	15 - 530	W87882.
HBJLB78	173	588085	1 - 317	15 - 331	
HBJLC51	174	784830	1 - 865	15 - 879	AW451973, AI766808, H88067, AA477171, AI376202, AA760752, AA781175, AW173607, AA992090, AI654796, AA946869, and H88069.
HBJLD57	175	683265	1 - 460	15 - 474	AA465326, and AL031733.
HBJLD73	176	765356	1 - 408	15 - 422	

HBJLE82	177	735748	1 - 474	15 - 488	
HBJLF58	178	864013	1 - 226	15 - 240	
HBJLL07	179	952791	1 - 273	15 - 287	
HBJLL13	180	656721	1 - 291	15 - 305	
HBJLL18	181	665874	1 - 329	15 - 343	
HBJLL28	182	847840	1 - 340	15 - 354	AA483929, AI499588, N57739, AA664548, AA493136, AI524360, AI791913, AI821714, AA482273, AW023990, T06754, AA455670, AA630672, AA501649, AA961035, AA579179, AA837087, AA533782, AA487888, AW438542, AA503298, AI821785, AW023149, AI223700, AW149313, AA588001, AA618452, AI473475, AA662976, AW270343, AI933714, AI431240, AA858372, AW148507, R31790, AA857370, AW196064, AA339692, AA580808, AA864261, AA502991, AW238605, AA370455, AI580250, AA507282, AI648410, AI587224, AA483771, AW270709, AA595499, AA516233, AA828062, AA501852, AA719073, AI470646, AA846935, AA297666, AI859438, N23504, AI683446, AA436774, AI138096, AA002063, AA635368, AL042927, AI874308, AA654661, AA610688, AA436782, R23521, AA515905, AA502440, AI696595, AA071334, AA621381, AI921043, AA468505, AW341978, AI792133, AA230213, AA643770, AA651632, AL036037, AI354388, AI754544, AA707782, AA707705, AI341571, AA833896, AA282820, AA833875, AI733856, AA780944, AA503119, AI754567, AA483223, H25921, AI755214, R23441, AI691091, AA493975, AA368573, AI056177, AA522642, AL038971, AA513893, AA653375, AL044586, AA687535, R73754, H29019, AA634837, AL047429, AA209423, AI587565, AI587583, AW302080, AI253007, AW081194, AW302087, AI434695, AA077019, AC004257, AC005696, AC016830, AC005060, AC006313, AC005071, AC003070, AF111168, AL049779, AL031447, AF047825, AC004659, AC006120, AC004148, AL133246, AC016027, AC007191, AC005002, AC005527, AP000556, AP000252, AC003029, AP000552, Z82180, AC003690, AC005226, AC004832, AC004883, AC005581, AC005387, AC004999, AL121653, AC004884, AC006312, AC005519, AC007842, AC005003, AL033518, AP000557, AL096701, U82828, AL049653, AP000703, AL121595, AC006251, AP000116, AP000049, AC007277, AC004638, AC005914, AL035422, AL050318, AC005880, AP000121, AP000053, AC005939, U47924, AL110502, Z97054, AC006112, AC005317, AL135744, AP000311, AC003663, AL049761, AC004953, AC004019, AC002116, AC005694, AC006487, AC005512, Z95115, AL021807, AL049745, AC007011, AC002301, AC005231, AC002375, AC006978, AP000066, AP000558, AC012384, AL109984, AC005197, Z75746, AF001549, AL031228, AC004814, AC006285, U82668, AP000513, AC005529, AL021940, AC005971, AC002310, AC006208, AP000244, AF111169, AC005899, AC005280, AC005049, AC006441, AC002531, AL049776, AC020663, AC007172, AL022165, AC004675, AC005031, AP000251, U91326, AC004149, AC003024, AF165926, AC006530, AJ003147, Z85999, AL023553, L77570, AL049589, AC009247, AC005305, AC005790, AL109798, AC007193, AC005730, Z84483, AL034451, AC002492, AC004983, Z84466, AC004706, AC007450, AP000355, AC005181,

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HBJL57	183	734522	1 - 322	15 - 336	
HBJL68	184	752810	1 - 332	15 - 346	
HBJLP14	185	657747	1 - 341	15 - 355	
HBJLR56	186	843811	1 - 882	15 - 896	
HBJLR82	187	779004	1 - 354	15 - 368	AA075481, AA075480, AA075067, AI791780, AA127140, J04716, L39879, L01122, M73706, S89400, K01930, J02741, U75408, W38303, AA076112, and AA076111.
HBJLV29	188	823400	1 - 374	15 - 388	AW239537, AA232075, W78769, AW020962, AA448818, AA128583, and AJ010842.
					AI797543, AA121152, AW189950, AA281969, AI082147, AI034184, AI871347, AA815173, AW418773, AA579808, AI468532, AI290248, AA458860, AA227296, AA573302, AA702437, AA278877, AA227295, AI458479, AI802340, T07432, Z39708, AI985569, T85327, AA659414, AI027853, AI766719, AA350191, AA904439, T16811, and AC004798.
HBJMA30	189	661665	1 - 646	15 - 660	T87986, and AA814273.
HBJMA51	190	725095	1 - 179	15 - 193	
HBJMC53	191	726491	1 - 454	15 - 468	
HBJMD71	192	760155	1 - 531	15 - 545	
HBJMD74	193	975088	1 - 467	15 - 481	AW206211, AF150250, C14388, AC002045, AC009509, AC006241, U52111, AC002554, AC004491, AF047825, AC005086, U95739, AF111168, AC007285, U80017, Z82190, AL031602, AL121655, Z97054, AC004893, AC005874, AF134471, AC007993, Z85987, AC003104, AC000134, AC007919, AC004692, AC008115, AC005363, AC005822, AC005300, Z94801, AC002128, AC003029, AL034429, AC005088, AC005914, U96629, AC005534, and MI18157.
HBJME92	194	792110	1 - 426	15 - 440	
HBJMF23	195	675692	1 - 379	15 - 393	AA126910, AP000360, AC000053, AC002060, and AC005002.

HBJMF30	196	691179	1 - 566	15 - 580	
HBJMF47	197	720050	1 - 374	15 - 388	
HBJMI76	198	720047	1 - 425	15 - 439	
HBJMK34	199	935952	1 - 443	15 - 457	AW182540, AA610084, AI936489, AA306791, AW340569, AA905749, and AB033050.
HBJMK94	200	794129	1 - 438	15 - 452	AW004683, H87822, H87851, and AW015156.
HBJML28	201	614911	1 - 465	15 - 479	AC004254.
HBJML69	202	864004	1 - 662	15 - 676	AL031657.
HBJMM72	203	760833	1 - 408	15 - 422	AI241023, AW401921, and AB023483.
HBJMN75	204	699060	1 - 448	15 - 462	AC002368.
HBJMQ86	205	576429	1 - 513	15 - 527	H55415, W22115, AL096701, and AB011114.
HBJMR15	206	964484	1 - 493	15 - 507	
HBJMR60	207	740142	1 - 601	15 - 615	AA601336, AA640305, AW341878, AI567676, H79323, AA593168, AW020612, AA167656, AW085626, AA729004, N27362, F35374, N49298, AA179364, W45416, AI520984, T89141, R99617, AI253347, AI918661, AI061158, AI281622, AA947352, AA228268, AA664963, W27084, AA761454, F01694, T57636, AA299490, AI744890, N63562, AI640905, AI919048, H81012, AI569452, AA828840, AI828721, AA496042, AW028376, AI343808, AA776663, AA428991, AI363336, AI149177, AL049743, AF165926, Z83840, AL109984, AL031311, AC005412, AC004821, AC007686, AC007546, AC007207, U85195, AC005377, AC007421, AC008115, U95742, AE000658, AC004832, AL035587, L78833, AC007216, AL020997, AL031589, AC004797, AC005520, AL035420, AF196779, AF139813, Z98200, AL033392, AC003025, AL035086, AL080243, AL121655, AC006530, AC005355, AC002312, AJ246003, AC004228, AC004895, AC005180, AL096791, AC006312, AP000512, AC005519, AC006285, AC005081, AL049869, Z82190, AC005839, AC005015, AL049694, AC004816, AC006071, AC005726, AC002120, AL031293, AC005089, AC006121, AL021453, AC005527, AC005696, AC006139, AL135744, AL133163, AF217403, Z97630, AC005971, AL035422, U78027, AC004878, AC004975, Z82176, AF023268, AC000025, AL121603, AL008582, AL049757, AF001549, AC005399, AC005914, AC007387, AC005207, AC000048, AF207550, AC005821, AC002094, AP000248, AC005876, AC002117, AC005231, AC005288, AL034429, AC006130, AF111167, AP000704, AL133448, AL096701, AC007386, AF111168, AC005529, AL031280, Z98884, Z73979, AF134726, AC004099, AC006581, AF051976, AC006160, AC006077, Z93020, AC004212, AL008734, AL031655, AC007993, AC005695, AP000555, AC004913, AC007308, AF109907, Z97056, AC005277, AL020995, AC003041, Y18000, AL117329, AC007263, AL034421, AP000503, AP000008, AC004967, AP000514, AC004834, AC002558, AL034420, U52112, AC005632, AL022333, AC005755, AL049780, AL031123, AC007055, AL133246, AC005911, AC005049, AC003109, AD000092, AC004897, AC007226, AC005183, AC005829, AL023807, AL122020, AL109952, AD000864, and AC005993.
HBJMT52	208	726480	1 - 240	15 - 254	

HBJMV72	209	952862	1 - 469	15 - 483	
HBJMW20	210	669030	1 - 643	15 - 657	
HBJMX04	211	614930	1 - 338	15 - 352	AI810024, AW023610, and AA609969.
HBJMX21	212	933143	1 - 353	15 - 367	
HBJMX29	213	690404	1 - 347	15 - 361	AW166629, AA601349, AA052895, N66744, AI732437, AI114704, T86740, AA491447, T98482, AA918759, AA663115, AA663086, AA291630, H72049, AW084938, R11040, AI926873, AW440498, T87973, AA846969, H93001, N63743, AA603883, AW028174, AA838162, AA507035, AA706845, AA837385, AA291700, AA297496, H73336, AA352365, AC004961, AL133382, AL034411, Z73420, AC002352, AC004887, AC003108, AC004645, U91326, AC006111, AC005509, AC004081, AL008712, AC016831, AL031276, AL033392, AC005531, AC007298, AL080286, AC004950, AL031985, AC004987, AC004448, AP000365, AL021939, AP000514, AF015262, AJ229043, AC005037, AL020993, AF196969, AP000547, U08988, AP000295, AP000044, AP000112, AP000152, AC004223, AC007663, AC006549, AF001549, Z68756, Z70289, AC007774, AC005516, AC004466, AC002312, AC002390, Z92547, AC005746, AC003071, AC002544, AJ010770, AL031584, AL121595, AB014080, AF017104, AB026898, AL050312, AL034408, AF020662, AC000078, AL109798, Z95331, AC002400, AC006441, AL049430, AC006059, AF147316, AC005081, AC004638, AC004876, AC004106, AL022578, AC002365, Z85987, AF196779, AC007364, AC004167, AL034582, AC016027, M98447, U82671, AL009179, and AP000553.
HBJMX34	214	703843	1 - 382	15 - 396	
HBJNC11	215	966608	1 - 516	15 - 530	
HBJNC89	216	786707	1 - 341	15 - 355	
HBJND59	217	576434	1 - 767	15 - 781	AA985391, AI053911, AA548890, AW403888, AL037632, AA081462, AI470646, AA834809, AA588001, AA833896, AA833875, AI580250, AA912287, AA483771, AA380354, H59372, AW274349, AW303196, AA580808, AW196064, H61630, AW301350, AL138096, AA515457, AI791913, AI792133, N54894, AI821714, AA679154, AI282511, AA483218, F25733, AI270096, AL119713, AL120687, AI283312, AA683258, AA507822, AA457642, AA491862, AA838190, AA491650, AW270270, H70994, AI821785, AW440545, H69109, AC007226, AF003528, AL031905, AC005815, AL008715, AC005036, AC008055, Z98941, AL096772, AC023172, AC005144, AC006013, AC007435, AP000228, AF165147, AP000140, AC007488, AP000088, AC005722, AC002480, AL049712, AC002523, AP000201, AP000093, AC005881, AC007447, Z82198, AP000097, AP000237, AF107258, AC007437, Z74739, Z86064, AJ229042, AC005261, AF001552, AF146191, Z83846, AC007842, AL009050, AC007671, AC005249, Y12853, AC007298, AL023807, AC004216, AC008372, AC005011, AL078459, AL031664, AC007066, AP000961, AL035089, AL079342, AL024495, AC005284, AC004741, AL121595, AC002499, AL021978, AC005874, AF134471, AC005146, U91323, U82668, AC002536, AP000966, AC007262, AL033379, AC004948, AL080239, AC002091, AC007681, AL049744, AC010200,

HBMBBC18	218	578887	1 - 298	15 - 312	AC006965, AL033527, AL008629, AC007363, Z98742, AC006450, AC007182, AL020995, AC003009, AC006210, AF045450, Z84483, AC008122, AC006080, AC004638, AC002492, AL080285, AL022336, AL049779, AF165175, AC007395, AL020989, AC002543, AC004805, AL021939, AC006322, AC005682, AC008072, AC005006, AC009721, AC003086, AC006379, AC005243, AL021391, AC004061, Z97205, AC008124, AC005035, AF064860, AL031666, AP000108, AC007270, AL022144, AP000086, AL031681, AC005082, AC002429, AC009069, AL033525, AB020869, AC004905, AP000958, AP000161, AL031735, AC002449, AL133241, AP000150, AF053356, AL049540, AL049875, AC010169, AC005410, AC004108, AF015262, U82696, AL031012, AL035416, AL117329, AL096792, AL022323, AP000009, AC005871, AJ229043, AC002463, AL121877, AC005482, and AC006390.
HBMBBC25	219	573103	1 - 414	15 - 428	AB014526.
HBMBBC35	220	921417	1 - 348	15 - 362	AC004702.
HBMBBC91	221	506594	1 - 560	15 - 574	H69543, H80124, W88965, W88544, R02124, and AP000497.
HBMBE72	222	760737	1 - 632	15 - 646	AW205507, and AI300640.
HBMBE84	223	578869	1 - 325	15 - 339	AC005905.
HBMBH36	224	971172	1 - 341	15 - 355	
HBMBH55	225	732250	1 - 289	15 - 303	
HBMBH91	226	753141	1 - 199	15 - 213	
HBMBI06	227	935819	1 - 407	15 - 421	
HBMBN32	228	775670	1 - 362	15 - 376	AA127005, H06566, AA125853, R56714, and AF191018.
HBMBO20	229	496513	1 - 453	15 - 467	
HBMBQ33	230	702457	1 - 461	15 - 475	R11468, AL009031, and AC002326.
HBMBQ83	231	689705	1 - 533	15 - 547	AA604872, AA026240, AA704592, AA258677, AC004087, and AC002385.
HBMBBS11	232	967111	1 - 355	15 - 369	
HBMBT85	233	863938	1 - 349	15 - 363	AC018633, and AC005271.
HBMBU24	234	677240	1 - 179	15 - 193	AA747565, AW207289, AI249497, AW366372, AI336633, AI434255, AI432653, AW149876, AI336634, AI524654, AI472536, AI049713, T99953, R28164, AI538938, AI289542, AI344935, AI267185, F28295, AI114703, AI811603, AA749184, AL048323, AW059828, F35428, AL048340, AI473208, AI479292, AI360195, AW022102, AI890507, AI285514, AA493923, AI383804, AI801325, AW020419, AI690813, AI687568, AA595932, H89138, AW188698, AI699020, AI687587, AI289791, AI521005, AI784233, AI918554, AI345005, AW020095, AW169643, AI345745, AI225000, AI440263, AI698427, AA939199, AI468959, AI310575, AI161279, AI799351, AI872423, AI334893, AA481494, AI340533, AA761917, AI669640, AL120831, AI284509, AL047398, AI689404, AW169628, AI040207, AI345736, AI273919, AA587590, AA502794, AI345415, AI246070, AI436429, AI345396, AI366959, AI828574, AI499104,



AI345397, AI627714, AA207067, AI955945, R65859, AI560227, AI335235, AW021373, AI699056, AI285419, AI273856, N99092, AL047422, AI434731, AA127565, AI336631, AW072719, AA642348, AW190242, AI539690, AW079768, AW268302, AW235501, AA768478, AI583982, AI337186, AW302954, AW104141, AI348854, AI002285, AI050666, AI307494, AW274355, AI250646, AW088899, AA176980, AI336582, AW167229, AI251221, AI349957, AW131952, AA653459, AI285439, AW161579, AI885949, AI582871, AI581033, AI224463, AL048644, AW274192, AI500706, N27632, AI254727, AI500662, AI471429, AW301505, W48671, AI340511, AI624304, AA857847, AI679959, AI633061, AW022494, AI348870, AI571699, AI699154, AW020288, AI702527, AA420722, AI349814, AI349186, AI336575, AW020710, AW023859, AI609375, AI349772, AL038463, AW020397, AI334895, N63128, AA579232, AA635382, AW082835, AI815232, AI335476, AI343030, N33175, AI471909, AI491904, AI284517, AW268964, AI379711, AI218156, AW243232, AI804505, AI866581, AW075382, AI859644, AA629977, R32821, AW020826, AA062896, AI927233, AI348895, AI656270, AW068845, AI698391, AI336495, AI349276, AI538564, AI784214, AI612885, AI345639, AI553645, AW191003, AW089122, AI915291, AI371251, AW152182, AI538850, AI859991, AI537273, AW148303, AI582932, AA514684, AW020373, AI590043, W38903, AI586931, AI524179, W46378, AI446775, AI690946, AW088560, AW301344, AI521560, AI889189, AW264727, AL036146, AW161202, AI72723, AI309306, AI473536, AI866461, AL045626, AW151979, AI866469, AI865116, AI553669, AI252077, AI348897, AI250627, AW274318, AI500714, C16221, AI950892, AI633125, AL048499, N22276, AL047344, AL137562, AL137712, AR068466, E12579, AL117440, S77771, AR038854, AL133093, AF043642, A08913, L04504, U89295, A08912, X06146, E12580, AL133606, A08910, E01573, E02319, A18777, A08909, AL049324, X99257, X57084, U80742, S76508, AL137276, A08908, S36676, AL122123, AL080074, A08907, L40363, AF090886, S69407, AL049452, AL110196, U90884, AL133081, AL137273, X93495, AL117432, AL110280, AC006197, AR050959, I89931, I33391, AL110197, AL049460, AB030279, I89934, X00861, I49625, AF026124, AF058921, AF150103, AR064250, AB019565, AJ131955, AL133636, AL050280, AB025103, AF079763, E00984, I04527, X62773, AF008439, I89947, A65965, L13297, Y11587, A65943, AL050155, E03671, AF200416, AF017790, I30339, I30334, I48978, AL096720, AF090896, AL133565, AF114168, AL008706, E08516, E02152, X63410, S75997, AL137429, AF100781, A90848, X62580, U67328, AR029490, I46765, AC006313, AB007812, U96683, X86693, AL080147, AF016271, E01614, E13364, U91329, AL137292, AJ012755, U72620, I89944, AF026816, AF169154, X82434, X79812, A65341, I42402, AF031147, M86826, AF106697, AL080158, E01314, AL122100, I66342, S83440, U62966, AL133113, AL133010, AF137367, AL137555, U75370, AF047443, AF032666, X72889, AL137550, AF001552, L24896, AF115410, U75932, AF091084, AL133104, AF175903, AL117644, AR054987, Y11254, AF141289, AL137538, AL133557, AL133016, AF036268, U57352, AL080132, AL080137, Y10080, AL137548,				
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						AF079765, X53587, AC002471, AC005374, X57961, I41145, AL136884, AF207750, AF100931, AF118094, AL049283, A65336, AF132676, AF061836, AR012379, AL117460, AL117585, U68233, I92592, X92070, M96857, U42031, E08631, I09499, AF125948, AL137256, AL133077, E02221, AF182215, AL137479, I68732, U88966, E15582, AF161699, AR034830, I96214, I18355, AF200464, A94751, AL137574, AF090903, I34392, I26207, AF085809, Z48796, AB029066, AF124435, X83508, D83032, X59414, AC006039, AL137537, AL137539, AF111112, A08916, AL133054, AF022813, AF118064, AL137478, AL137530, AF111851, AL122111, X63162, X89102, X52128, E15324, AF090900, AF061795, AF151685, AF158248, S68736, AL137658, AL133568, AF185576, AL122093, AF061573, AR068753, A90832, AF201468, AF113013, A57389, AF017437, L19437, A86558, and AL137286.
HBMBU38	235	531494	1 - 311	15 - 325		AL031259.
HBMBX69	236	698362	1 - 319	15 - 333		AC004883.
HBMBY27	237	574803	1 - 407	15 - 421		
HBMBSZ71	238	880580	1 - 1275	15 - 1289		AI075978, AW298093, AI201251, AW293546, AI917770, AA906330, W63599, AW086186, AA890701, and AA551674.
HBMCA44	239	716647	1 - 504	15 - 518		AA693506, AA411644, W31362, AA422026, W24882, AA016012, H16662, and AW351706.
HBMCA58	240	736084	1 - 287	15 - 301		AI380599.
HBMCA94	241	793174	1 - 444	15 - 458		AL078644.
HBMCD26	242	847826	1 - 275	15 - 289		
HBMCD49	243	723005	1 - 344	15 - 358		Z83853, AC006318, AC004137, and AC006262.
HBMCE22	244	674659	1 - 439	15 - 453		W31342, and AI699098.
HBMCH75	245	932037	1 - 562	15 - 576		
HBMCH88	246	711318	1 - 387	15 - 401		
HBMCK57	247	495736	1 - 493	15 - 507		AI859108, AI565562, AI366188, AA703350, AA983821, H59553, T98748, W26825, and AA630729.
HBMQC14	248	658484	1 - 253	15 - 267		AF083106.
HBMCS34	249	703438	1 - 675	15 - 689		R25159, AW294139, and AI474654.
HBMCS77	250	465070	1 - 486	15 - 500		R00604.
HBMCT67	251	751643	1 - 312	15 - 326		AL031123.
HBMCU92	252	529580	1 - 514	15 - 528		
HBM CZ11	253	967099	1 - 303	15 - 317		
HBM CZ27	254	683436	1 - 331	15 - 345		U73636.
HBM CZ32	255	855694	1 - 369	15 - 383		AA610530, AL120543, AW192373, AA564682, AA470958, AC007204, AC005899, AL031291, AC002040, AL049830, AC005971, AC004783, AC006213, Z97832, AL049776, AF047825, AC002492, AF196971, AL035588, AC002470, AC007401, and AL078634.
HBM DA51	256	691116	1 - 434	15 - 448		

HBMD03	257	924183	1 - 405	15 - 419	
HBMD03	258	888206	1 - 398	15 - 412	
HBMD03	259	750274	1 - 135	15 - 149	
HBMD03	260	861576	1 - 279	15 - 293	
HBMD03	261	739316	1 - 333	15 - 347	AA027081, AI525653, AI525669, AI557238, AI557808, AI557602, AI547225, AI557426, AI541321, AW020592, AW022727, AW021178, AI541056, AW022874, AI541048, AW020406, AW019988, AW021777, AW022826, AW022299, AI557222, AI525802, AW020425, AW022308, AW020328, AI886206, AW020634, AW023351, AW021693, AI557258, AW020931, AW022981, AW021182, AW020480, AW021466, AW022593, AW020629, AW023884, AI525857, AW021561, AW021059, AI525656, AW023617, AW020295, and AC007655.
HBMD03	262	657382	1 - 339	15 - 353	AA677098, and AC004814.
HBMD03	263	952830	1 - 393	15 - 407	
HBMD03	264	805554	1 - 788	15 - 802	F34605, AL046519, AI340151, N69399, AI246061, AA229159, F00350, AI302350, H64549, F24745, R68706, H16875, AW071109, AI204309, AA523719, AA778580, AA456149, M83827, AI280566, M78026, Z30049, W45215, AA648957, H68343, AC012384, AC002480, AC005531, AI008710, AL035079, AL031729, AL049631, AC004025, AC004983, AL022320, U80017, AC007488, AC004477, AL121769, AL022397, AP000300, AC002994, AL049832, AC002350, AC007172, AC007066, AC006449, AP000113, AP000045, AC007014, AC004466, AC003681, AC006557, AC004791, AL031054, AC007880, AF109907, Z98884, AC005529, AC004797, AC002310, Z99943, AE000658, AC006101, AP000346, AL049712, AC003046, U15177, AC004874, AC005516, AL022316, AC002990, Z83822, AP000354, AC007040, AC005527, U91323, AC005191, Z82194, AL135745, AF001550, AC004656, AL031668, AC005829, Z95114, AL021707, AL121653, AC004448, AL121852, AL021578, AC004890, AC005184, AC005486, AC006141, AL008718, AC007228, AC004584, AC000003, AC003108, AC007919, AF196971, AP000501, AL096711, AC004816, U96629, AC006120, AF207550, AL031655, AC004263, AC005846, AC002367, AC006576, AL034429, AJ003147, AC007955, AC002369, AL049709, Z86090, AL034420, AC018633, AL121748, AC000159, AL035420, AC006509, AC004953, AC002528, AC004878, AC005015, AC005280, U89337, AC005049, AC002303, AC006137, AC005099, AL008635, AC007546, AC005696, AC004858, U89335, AL035681, AC003029, AF024533, AL031255, AC005664, AC005207, AL109984, AL035587, AC005865, AL022326, AC005844, AC007182, AC005753, AC000097, AL008725, AL031848, AC006547, AC002470, U91325, AC000379, AB015355, AC005164, U91318, AL035652, AC005332, AC002091, AL049869, AC006468, AC005007, U95742, AC002565, AC006538, AC007707, AC005158, AC005800, AL031733, AC003075, AC005037, Z85986, AC005859, AC007216, AL031643, AC004223, Z84487, AB003151, AP000688, AL034423, AL022722, AC005736, AL031591, AC003982, AF069291, AL034553, AC002312, Z82190, Y10196, AC004098, AC004967, AP000313, AC003950, AL035249, Z95704, AC005197, AC009542, AC005484, and AR036572.

HBMDJ11	265	967046	1 - 325	15 - 339	AC005971.
HBMDJ36	266	721673	1 - 188	15 - 202	AW303196, AW274349, AW301350, AI754955, AA649722, AA634145, AA768097, AA937687, AA810370, AA719080, AA573020, AA644207, AA709005, AA504638, AA558060, AA487858, AA568778, AA649705, AA579736, AA554319, AA858197, AA461233, AA513972, AA501578, AA814522, N29933, AA132914, AA483731, AA480790, AA824655, AA824654, AA582911, AA077817, AA437161, AI830390, AA523815, AA350859, T15897, AA650450, AA602528, AA670468, AA861959, R97934, AA845813, AI434706, AI962050, AI284640, R38154, AA610493, AW440976, H50727, AI251002, AW236342, T07451, AA167659, AA525824, AA577906, T71030, AA229785, AA522942, AA603156, R97326, T06828, AA678499, AA743978, AA504871, AA578481, AA492140, AA623002, AA970213, AI625244, M77899, T05101, R89294, AA199616, AA490183, AW193265, AI282832, F18974, AA259245, AW276435, AI270117, AA826303, AI688846, AA605032, AA649642, AI824562, AA745104, T41124, AA113861, AA720548, AA729721, AA634146, AA525876, AA326589, AA569167, AI205126, AI278997, AA552885, H64778, AA346575, AA610611, T08438, AA325817, AI339850, AA075995, AW029038, AA558015, AA947360, AA804379, AI929531, AA664015, AA837677, AA632837, AA515435, AA550758, AA973803, AA483068, H63607, AA774184, F32800, AA703887, AA719805, AI434695, T06556, AW088058, AI537955, AA177061, AA020850, N66428, AA594145, AI469172, F19012, F36273, AA401022, AI216799, AA886584, AW438643, AA578391, AI281697, N33611, AA252263, AA837084, AA446657, AA947811, AA233519, AA780797, AA847128, AA771811, AA491762, AI291124, AA378580, AA586562, AI471481, AW166815, AA890235, AA713815, AA745410, AW162049, AA515051, AA665021, AW419118, AA323749, AI291268, AW276827, AI014358, AA503473, AA610783, AW021747, AA449088, AI537030, AA599920, AA605274, H10994, AI046409, AW440836, AA743960, AA368936, AI341548, AI679782, AA813902, W16581, AI904894, AA678443, H64563, AI564185, AA601499, AA485291, AA598586, AW193432, AA779040, AA346454, AA775940, AI044940, AI917271, AA557879, AI281881, AI469003, AI287651, AA385100, AA557686, AI801591, AI446464, AI286264, AW302450, AF150152, AA325699, AA441788, T40077, AI918421, T41155, AA225155, T67750, AA678772, AA827295, N63352, AI431303, AI049722, AI133636, AI567674, N25296, AA501722, AI002834, AA558697, AA747480, AI053672, AI674873, AA644551, AA551503, W47183, F03097, AI350211, AI890923, AA468131, AA352803, R97969, AA552945, AA569387, AW338500, AI046457, AA513293, AI375710, AA458736, AI287528, AA587604, AP000130, AP000208, AP000247, AP001046, AI096701, AP000302, AP000114, AP000046, U13056, U07000, Z83822, U14694, Y12508, U14719, AC004606, AF060568, M27161, AC005994, Z82208, AF003528, U89335, AI049869, AC006210, U14718, AI031447, AI035420, AP000307, M87916, L43392, AC006241, AC002984, U14687, Z82975, AI049843, AC004024, AC005971, AC007043, AI049776, AC007656, U47924, AP000047, U67274, AC005251,

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HBMDK13	268	657221	1 - 610	15 - 624	T85668.
HBMDS17	269	796050	1 - 521	15 - 535	AI1142427, AF073792, U51134, and I81226.
HBMDS64	270	746572	1 - 392	15 - 406	AI205126, T55510, AI003172, T53606, F19258, AW104748, AI474713, U51696, W60516, F29989, AA557325, AI608626, H71429, AW080134, AI365988, AA340960, AI962050, AA814017, AI251002, AW339687, AA515051, AI929531, AW166815, AI635272, AA169801, AA229785, AW162049, AW440836, AI339850, AI890923, AI567674, AI625244, AI049722, AW029038, AI904894, AI917271, AI133636, AL119391, AA713815, AI469003, AA826303, AA904218, AL120674, AW338500, AA115968, AA584751, AW131034, T29180, AL038785, AA079706, T12272, AI922840, AL040913, AI368745, AA340003, AA551509, AA228329, AL041368, AL138265, AA653057, AA148489, AW023672, AA886584, T90706, R55847, AA644207, C06458, AA482711, AA483068, AA669251, R95171, AI679782, AI003743, AA501344, AA327782, AI433187, AA099892, AI802526, AA113186, AA365587, AC004491,

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HBMSB19	271	847800	1 - 252	15 - 266	
HBMSK92	272	531156	1 - 114	15 - 128	
HBMSO15	273	847795	1 - 425	15 - 439	H53903, and AP000692.
HBMSO39	274	531158	1 - 206	15 - 220	AC006504.
HBMTF79	275	544889	1 - 119	15 - 133	
HBMTG05	276	932497	1 - 245	15 - 259	
HBMTM75	277	574515	1 - 317	15 - 331	AB017919.
HBMTTP84	278	703844	1 - 253	15 - 267	AI510796, AA351893, AI982994, AA847341, AA778580, AA455202, AI734193, AI791227, AI732911, AI884404, AI734158, AA581317, AA636077, AA843542, AI815425, AI002863, W45215, M77964, AI890283, AI207534, AI867012, AA729628, W02419, R79396, AI816073, AC006084, AC004820, AC002369, AC002558, AC005383, AC007014, AL009181, AL050308, AC003071, AC004659, Z98950, AL132987, AC002350, AC005200, AL049699, AB023049, Z95116, AL021918, AL020997, AL109613, AC002492, AC004816, AL096701, Z85987, AL035089, Z82190, AC007501, AL049828, AC005775, AL031368, AJ246003, AL021394, AC005553, AC005535, AL022322, AL121658, AL049838, AC005529, AC006211, AC005102, AL031587, AL049830, AC005574, AC002115, AF124730, AL079342, AF111168, Z83843, AC007686, AC000025, AL008582, AC005527, AL022578, AC005630, AC001644, AC004386, Z97876, AL117344, AC005089, AC005037, AC002316, AL133275, U51561, AP000275, AP000037, AP000105, AL020996, AC004987, U91327, AL049643, AL049709, AC005099,

HBMTU03	279	924979	1 - 292	15 - 306	<p>AL021937, U73643, AC004073, AC006509, Z93023, AC000111, AF111169, AC007283, AC011311, AC004812, AF001552, AC005372, AP000501, AC002553, AF006501, A1243213, AL12023, AC004686, Z73417, AL035086, AC005224, AC008014, AC007066, and AF011889.</p> <p>T41134, H61871, A1962094, H65010, A1915081, T83057, A1445774, N54397, H62550, A1370470, AA135761, H68343, AA385775, AA847064, D51809, AA161305, A1187148, AA371410, R70883, R70884, AA747757, F33037, AA722146, D51877, AA133332, A1571161, F17529, A1559304, AA584594, AA633039, AA298365, AA584493, R92563, AA297006, AW276683, AA664126, R19199, T48723, AA838091, AA602971, AA584183, AA935409, W39287, A1619994, AA714011, AW245860, AA719523, A1800426, AA445951, A1697242, AA653291, AW237905, AA236867, AA487209, N27874, H63660, AA583386, A1049955, F35684, AA587215, AC002091, AL024498, AC006512, AL031597, AC003982, AC006487, A1022165, AC004000, AL049856, A135744, AC007565, AC003042, AC006023, AF217403, AC004752, AC002492, AC007193, Z98200, AC005003, AF196970, AL121603, AC006211, AL109798, AC005324, AC004821, AL022315, AL020997, AC005089, AC005914, AC006432, AL022302, Z93023, AC004854, A133245, AL050332, AC008072, AC002470, AL034421, U29953, AC005736, AL096701, AL031681, U66536, AC007792, AC005670, AC004098, AF111168, AC005837, AC007774, AC002073, AF196779, U89337, AC005682, AL109952, AC005921, U91326, AC005225, AC005081, AC004383, AC005940, AC005531, AP000503, AL022336, AF053356, AC005391, AL031053, AC005844, AL009179, AC006241, Z98304, AL049776, AC005330, AC004967, S42653, AL034429, AF045555, Z85987, AC000120, AC005911, AC004531, AC003029, AC005015, AC005562, AF001549, AL009181, AL034420, AC005519, AC005318, AP000030, AP000212, AP000134, AC005800, AC004491, AL031311, AL035400, AL031447, AC004552, AC006071, AC005899, AF196972, AF207550, AC005696, AL049757, AP000704, AC004034, AC016027, AC006001, AF134726, AL022149, AL031432, AC004955, AC006057, AC005231, AC005747, AC016830, AC005484, AC002477, S79836, U73647, U11297, AC005520, AC004686, AL022311, U80017, AL078581, AC006480, L48038, AL031295, AC002544, M63544, AF181896, AF130249, AF190465, AC004477, AL049761, AC004152, AL035671, AL136295, AC000062, AC005726, AC005786, AC003051, AC007308, AC005808, AC003041, AC006101, AC002116, AC006387, AC005829, AC005277, AC005091, AC005924, AP000116, AP000510, AC006285, AL139054, AC002312, Z97353, AC007327, AP000251, AC004812, AL133243, AL031670, Z97183, AP000512, AL049557, AC004583, AL078639, Z97832, AC003013, AC006441, AC004895, AL023575, AC004655, Z99128, AC004858, AC005568, AC006035, AL009183, AC004598, U47924, AL033392, AP000350, AC005332, Z82201, AC007685, AC005261, AL031737, AC006236, AL035422, AL031255, AC004217, AC000353, AC009308, U62317, AC004796, AL021366, AP001053, Z69837, AL109827, Z85986, Z81364, AL031595, AL034417, AC002378, Z69666, AL031985, AC005527, X55448, AC005598, AC004534, AC007993, AL031848, AC005632, AL034549, AL031005, U95739, AL022326, AL121852, AC006115, AC004797,</p>
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HBM TW58	280	806670	1 - 651	15 - 665		
HBM TX29	281	689834	1 - 139	15 - 153		
HBM TX84	282	537385	1 - 338	15 - 352		
HBM TY82	283	523728	1 - 316	15 - 330		Z93017, and AL009181.
HBM UA62	284	557828	1 - 330	15 - 344		AI064768, Z98753, AL031681, Z95703, AC000354, AC007036, AL135746, AL109653, AP000516, U82672, AL133512, AL049648, AL033530, AC004986, AC002357, AL049554, Z83850, AC006152, AL022164, Z75895, AC010349, AL022310, AC004191, AB014088, AL096803, AL021812, AC002069, AC011604, AF121898, AC005323, AC006354, and AC004930.
HBM UD12	285	574796	1 - 306	15 - 320		AL122020.
HBM UF60	286	740606	1 - 311	15 - 325		AC007536.
HBM UG57	287	735024	1 - 303	15 - 317		
HBM UH62	288	752244	1 - 329	15 - 343		AL096791.
HBM UJ84	289	531159	1 - 243	15 - 257		AI312718, AC005023, Z95118, AC005041, and AL034548.
HBM UK59	290	712591	1 - 462	15 - 476		
HBM UN30	291	693337	1 - 559	15 - 573		AF015720, AJ229041, AC005829, AL031283, AC000134, and AL031255.
HBM UO10	292	953933	1 - 316	15 - 330		
HBM UO12	293	417210	1 - 178	15 - 192		AL022313.
HBM UO90	294	928078	1 - 311	15 - 325		
HBM UP35	295	531101	1 - 236	15 - 250		
HBM UT83	296	793052	1 - 462	15 - 476		AW080842, AI126237, AA033525, AI288602, AA070152, AI200312, AW293916, AI738708, AA033526, AW182578, AA961647, AA808104, AA884100, AA410505, AI635980, AA580797, AA748547, T71568, AI004853, AA975024, AI674097, AA988905, T82022, AL133609, AL137420, and Z94722.
HBM UV03	297	924916	1 - 394	15 - 408		
HBM UY32	298	959968	1 - 234	15 - 248		
HBM UZ96	299	574522	1 - 208	15 - 222		AL020995.
HBM VA83	300	529815	1 - 275	15 - 289		AL043165.
HBM VE14	301	545170	1 - 685	15 - 699		AA160290, AA357550, AW377670, AA046565, AA447158, W42824, and N21687.
HBM VI79	302	781686	1 - 227	15 - 241		AC020663.
HBM VI94	303	574511	1 - 191	15 - 205		
HBM VO02	304	920759	1 - 598	15 - 612		AL109839.



HBMWA31	305	529678	1 - 406	15 - 420	AW291592, AA135499, AI949732, AI367157, AI040759, AA682731, and AA764743.
HBMWA57	306	526863	1 - 202	15 - 216	AC002470.
HBMWI35	307	706033	1 - 367	15 - 381	
HBMWJ01	308	959223	1 - 635	15 - 649	AI621074, AA648509, AW103842, AI133256, AF118079, and AL133216.
HBMWL30	309	936058	1 - 309	15 - 323	
HBMWL91	310	529837	1 - 202	15 - 216	
HBMWQ85	311	765109	1 - 397	15 - 411	AW377503, AA007382, W23548, AA001311, H53191, and N78201.
HBMWV93	312	574801	1 - 439	15 - 453	
HBMWX74	313	573336	1 - 310	15 - 324	AC004223.
HBMWZ14	314	573335	1 - 311	15 - 325	
HBMWZ16	315	712832	1 - 482	15 - 496	AI436109, H27387, AI889289, AI027575, N79584, AA828426, AW014938, N79587, AI174444, AI143425, AW247147, AA826017, T59414, AW087276, AI434510, AI913074, AI351503, AI200849, AI921728, AI222784, H11717, AI246366, AI936789, AA281074, AI093047, AW004642, AI826923, AA857401, AI313190, AI589862, AI581002, T66176, H14297, AI313169, and AI658705.
HBMWZ94	316	573348	1 - 334	15 - 348	
HBMXE31	317	573323	1 - 298	15 - 312	
HBMXF47	318	573324	1 - 66	15 - 80	
HBMXG08	319	959766	1 - 405	15 - 419	
HBMXH68	320	571361	1 - 584	15 - 598	
HBMXL10	321	968054	1 - 385	15 - 399	
HBMXM65	322	925570	1 - 467	15 - 481	Z55829.
HBMXN39	323	705578	1 - 348	15 - 362	AI054090, AI246061, AI284543, AA297207, AI249853, AI251241, F33126, AI254770, AI133514, AI251944, AI251034, AI251203, AI251284, AI250552, T93105, AI690497, AA502098, AI300054, R51582, AI160786, AI223626, AA779667, AI421723, AL119156, AI119182, AW019964, W63553, AA378207, W81372, AA714011, AI866970, T08386, AW303098, AI570019, AI749306, AA558366, AW069227, AA492114, AA664126, AI368873, AA805989, H86579, AI889579, AI634187, AI457313, AA772704, AA745628, AA582746, AA491767, AA938727, F35684, AA657910, AA837771, AA831408, AI619994, AA584493, AA769141, AA302934, H95822, AA587215, AI858272, AW161016, H78984, W95552, AA078128, T64444, AA890060, T39230, AA568747, T51556, AA973913, AA244406, AW236277, N25079, AW392414, AL134940, AI110760, T61928, AW169390, U46402, AI650702, AA122310, AC007406, AL022726, AF196972, AC005881, AL022320, AC006270, AF178030, AC006576, AP000501, AC004813, AC009248, Z99128, AC005899, AC012627, U82828, AC006084, AC008123, AL049694, AL109963, AC002425, AC005157, AP000011, AI031432, AF196779, Z98304, AC005291, AL135744, AF165926, AC005516, AC005529, AL133246, AC004812, AC005519, AC005082,

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HBMXN69	324	731274	1 - 356	15 - 370	AJ934342, AI652289, AI749542, AI708414, AI659752, AA521117, AI685658, AI469153, AA810054, and AA749006.
HBMXO08	325	959768	1 - 336	15 - 350	
HBMXP90	326	574802	1 - 576	15 - 590	AI206408, AI765081, AW117539, W76554, W47134, AI282130, R00077, AW139096, AI970492, FI0866, AW003300, AI492386, AI473105, AI699748, R38163, AF007132, and AC006055.
HBMXR44	327	693123	1 - 400	15 - 414	AA094354, AL120141, U49973, Z99128, D83253, AP000150, AP000009, AC007869, AC007297, AL031781, AL022333, AC018633, and AC004382.
HBMXS38	328	706039	1 - 654	15 - 668	AA806368, and AI811425.
HBMXU37	329	787155	1 - 512	15 - 526	AA354804, H95288, and AC004472.
HBMXW13	330	657241	1 - 408	15 - 422	AL035461.
HBMXW73	331	764440	1 - 338	15 - 352	AA634933, and T63384.
HBTAE07	332	953607	1 - 543	15 - 557	AA618452, AA478355, AI284640, AA493695, AL046409, AA453558, AI133297, AL045808, AL046156, AI270117, AI345157, AA490183, AI583283, AW275510, T06754, AW438555, AI499588, AW149313, AA584167, AA775143, AA836811, AA483929, AL042753, AA938105,

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HBUAG42	333	676856	1 - 349	15 - 363	AF108138.
HBVAA17	334	924209	1 - 213	15 - 227	AI310343, AA559205, and J03059.
HBVAB40	335	463488	1 - 307	15 - 321	AA713872.
HCFAA38	336	576731	1 - 408	15 - 422	
HCFAA84	337	869259	1 - 626	15 - 640	AL031733.
HCFAF63	338	689719	1 - 404	15 - 418	
HCFAF85	339	728254	1 - 333	15 - 347	AA527109, AA533660, AF205588, Z83820, and Z82200.
HCFAU41	340	576064	1 - 452	15 - 466	
HCFAU74	341	576069	1 - 201	15 - 215	
HCFAV46	342	924086	1 - 515	15 - 529	AL110393, H58351, AA564859, H58740, AW074398, AW023672, AA714595, F37169, AI561335, AW086257, AA626678, F37223, AA878495, AA558697, AA515435, AI205126, AA366035, AA654627, AA626747, W60516, AW302322, H64777, AA077817, AA748121, AW268338, AI648558, AA355281, AI867044, AI198376, AI284640, AW088058, F36273, AI053907, AA652057, AA649642, AI865364, AA308806, AL036523, AA317170, AI016000, F19258, AA434484, AA095511, AA605274, T40617, F32705, AA663922, F36373, M78150, AI252884, AI110770, AI446638, F29989, AI888926, AA342901, AA318652, AW406447, F25135, AW301937, AI281881, AI281903, T40338, AW265654, AI567577, AI358343, AI026770, AW419262, AI200051, AI053672, AI435544, F18974, AA059154, AW166815, AA127354, AW151884, AA377730, AI471543, AI358229, AI471481, AI924251, AI061334, AW406755, AA321311, AA125788, AI824562, AW080134, AI688846, AA515224, AI061334, AW406755, AI365988, AA745410, AA908687, F36404, N71724, AI334443, AI963720, AL120483, AI298710, AI654588, AA569187, AA913549, AI630203, AA663306, AA177061, AA704643, AA338431, AL120295, AA557879, AA565666, F28576, AA446955, AA715270, AW339687, AW276827, AA661948, AI446464, AA904218, AI654529, AA483034, AI569086, AI350211, AW193265, AI286356, AI144330, AL042753, AA173238, F35113, AI635272, AW264973, AA650244, AI343173, AI375710, AA559290, AA327323, Z98473, AI623898, AW193432, AA176924, AI341664, H56013, AA610491, AI160582, AA578141, W95976, AI890918, AL046409, AI709365,

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HCFBW03	343	924532	1 - 330	15 - 344	and AF217403.
HCFAY27	344	784950	1 - 254	15 - 268	AI952593, AA402934, and T24885.
HCFAY33	345	576058	1 - 166	15 - 180	AA680371, and T85563.
HCFBA96	346	853961	1 - 176	15 - 190	AC005969.
					AI613235, AA903469, AA813305, F25776, AW071554, AW150820, AW194200, AI983597, AI246999, AW004802, AI364662, AI282522, AA628330, AA229754, AA526614, AI365012, AI299507, AI918967, AI553849, AI560300, AI950742, AW075387, AA868647, AA447147, AI690364, AA411518, AA713800, AA953331, AI094450, AA682774, R96820, AA302484, AA872093, AI300639, AI015741, AA130713, AW262508, AI051521, AA496620, AA978132, Z38471, AA736839, F31462, F18178, AI350873, AA805472, AA988865, AA496495, T24559, AI081865, AI144428, H61569, AA373811, AA229480, AA132945, AA703237, AA229962, AI690503, AA745775, AI720505, AI453250, AW009901, AW015954, AW118526, AI249388, AI282565, R56834, AI219656, AI285115, AI369774, AA461097, AW130721, AW339140, AW273429, AW148657, AI538694, AA065282, AI866733, AI874208, AI199700, AI805844, AW008035, AI829142, AW337251, AI983830, H46569, AI814591, AI818220, AW269978, AW168266, AI186921, AA229233, AI610303, N34882, AA832328, AA923506, AI078009, AI301063, AA670351, AI203695, AI339100, AA987523, AI803837, AI751711, AI445423, W94943, AA449775, AA280728, AI017038, AW276596, AI423558, AI828679, AA677814, AI954092, W68425, AI754933, AI799656, AI092937, AI277972, AW274402, AI310725, R59097, AI279557, AI310726, AW410249, AA526185, AA573897, AI078388, AI741564, AI147456, H98073, AW410004, AI300518, AA526998, AI721118, AA522451, AA508660, AA004278, AW182880, AW411240, AI953077, AA533655, AI283484, AI970703, W90665, H56058, AL120205, R10734, T73441, AI591031, AI741030, AW270071, AI827198, AA628743, H25535, AI972733, AI927014, T51235, N91829, AA853526, AI860745, AI887607, AA580297, AI348361, R56835, AA229196, AA858412, AA102712, AA228723, AI535963, H26397, AA526103, AW189969, AA229458, AA644220, D25820, AW410257, AA557419, AF151822, AF176006, AF189289, and AF192559.
HCFBB14	347	658542	1 - 233	15 - 247	AA223831.
HCFBD91	348	850449	1 - 141	15 - 155	AF172244, and Z74023.
HCFBF07	349	953506	1 - 286	15 - 300	
HCFBG82	350	870890	1 - 551	15 - 565	
					AI127475, AI871007, AA142876, AI523587, AI830621, AW134689, AI825831, AA773904, AI862655, AA143146, AI768600, AA576383, AI307774, AW274750, AI916645, AA633463, AI334590, AI867665, AI867677, and AW152392.
HCFBI39	351	576018	1 - 330	15 - 344	
HCFBI80	352	576669	1 - 466	15 - 480	
HCFBL08	353	959617	1 - 289	15 - 303	
HCFBN62	354	576126	1 - 628	15 - 642	AA553332, AA343810, AI354333, AA496309, AA745302, F01222, N70957, AA757869,

					AA584597, AW277135, AA297698, AA532875, AI146266, AW249720, T30864, AA484256, AW084161, AA295874, AA295865, AA225358, T63747, AA167549, AA229842, AI866971, AI096766, AC005225, AI133163, AC003663, AP000501, AC004927, D87675, AC005237, AC006285, AC005089, AI031587, AC005215, AF111168, AI031176, AI034429, AI109801, AI121655, AC004821, U07561, AP000359, L78833, AP000555, AI133241, AI022323, AC016025, Z95114, AI117258, AP000343, AC002432, AC004216, Z93017, AI031276, AI035071, AI050302, AI049569, AP000263, AC002395, AC005483, AP000036, AI049692, AC005387, AI096791, AP000088, AI133448, AC000397, AC005808, AC006315, AI022163, AC002106, AR004690, AC006430, X87373, AC005358, AC004983, AC005621, AC009069, AI096703, AC008150, AC005755, AC005102, Z98884, AC006211, U82757, AC005740, AC006128, AC005527, AB016897, and AC004476.
HCFBO39	355	835926	1 - 423	15 - 437	
HCFBO76	356	577218	1 - 301	15 - 315	AF031077, AF031076, AF031078, and AF030876.
HCFBR92	357	576864	1 - 463	15 - 477	
HCFBS25	358	828076	1 - 326	15 - 340	AI028522, AI040333, and AI055988.
HCFBS73	359	506244	1 - 484	15 - 498	F19258, AI820743, AI003172, W60516, AI003743, AA551509, AI038785, AW104748, AI365988, AA635417, AI205126, AI762575, AA229785, AI914706, AI350211, AA584749, AA557325, AA483204, AI962050, AA340003, AI917271, AW265294, F29989, AW166815, AA077935, AI358229, AI904894, AI567674, AW339687, AA856981, AI635272, AI815000, F28576, AI474713, AA973575, AI569086, AW080134, AI038279, AW337985, AA515051, AI079910, AI133636, AW130799, AI445436, AI890052, AI963786, AI929531, AI079645, AA482711, AI469003, AI433187, AI890923, AW162049, AI042856, AI679782, AA713815, AA077817, F31619, AA344959, AI119391, AA579184, AA077952, AI041368, AW440836, AA558269, AW029038, AW118011, AW105538, AI625244, N99715, AI040913, AW088202, AA228329, AI421213, AI471729, AI358343, AW003434, AI866807, AW264969, F36273, AI048144, AI499094, AI051551, AW069807, AI049722, AI339850, AW193432, AI284640, AW074398, AI149915, AA904218, AW406755, AI041412, AW088616, AI244254, AI120674, AA340960, C06327, AA365587, AI064952, AW265197, AI608626, AI046746, AI547286, AA743956, AI653515, AA228420, AI282907, AA837755, AA339076, H88666, AI251002, AW275664, AI305766, AA639025, AA601270, AI053535, AA745410, AW338500, AI963720, AI761471, AW327360, AI565873, AI468134, AA366035, AI922840, AI886060, AA078483, F31204, AI341664, AA826032, AI590038, T12272, AA501344, T29180, W49488, AI610159, AA533138, AI934307, AA516326, T55510, AW407220, AI720141, AA601218, AA381665, AA515128, AA365144, AI286264, C05755, AI688846, AA658235, AA826303, R89296, W38648, AA580662, AW131034, AI291047, AI935827, AI918421, N58729, AI886365, AI827234, AW151016, AW023672, AI821776, AW157005, AW193265, AI028510, AI613280, AW103239, AW419118, AA987962, AA669961, AA843450, AI637587, AI082510, AA133986, AI951889, AI951928,

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HCFBU01	360	916703	1 - 543		15 - 557		AC011422.
HCFBU38	361	707620	1 - 273		15 - 287		AA654338, R11792, R18553, AA488229, and R33569.
HCFBU84	362	573546	1 - 447		15 - 461		AI817736, AI084181, and AI918987.
HCFBU85	363	576010	1 - 255		15 - 269		AP000315, AP000118, and AP000165.
HCFBW13	364	828042	1 - 458		15 - 472		Z42409, R59109, W78198, AW276841, R14684, AC004013, AJ010770, AB018346, AF091711, AF083037, AB019691, and AJ131693.
HCFBY02	365	920340	1 - 409		15 - 423		AI859280, AW392291, AI342622, AI598003, and AW167154.
HCFCA31	366	725700	1 - 421		15 - 435		R09578, AA676513, H10338, AA313594, AA336022, N25123, T32628, AL135366, N56063, Z42875, R47343, AA411514, T55290, H40743, H40750, AA402101, AA496316, AA320228, AA040891, AB027196, and D87451.
HCFCB67	367	751764	1 - 445		15 - 459		AA862312, AI564185, AA702605, AA469451, AI368862, AI628288, AI904586, AI904594, AI742168, AA847499, AL042667, AL042670, AI679294, AW169038, AA481887, AI679871, AA827771, AI143840, R93642, AI623364, AF003626, AC006277, AC005534, AC002542, AL049759, AL021940, AL031848, AC005512, Z93930, AL021877, AC005488, AC005666, AL096712, AC004019, AP000133, AP000211, AL050332, AF134726, AC004913, AC007676, AP000503, AL034420, Z99716, Z97632, AC005280, AC007536, AC004596, AC002316, AC007731, AC005500, U47924, AC006441, AL033527, AC004526, AC000025, AL096701, AL022336, AC005971, L47234, AC008124, AL035420, Z95114, AF064861, AP000140, AC005529, AC004033, AC008372, Z98742, AC000120, AL008718, AL022320, AC005899, AF190465, AC005696, AL049776, AL109827, AC006207, AC005015, AC003977, AF048729, AF109907, AP000501, AC005932, AL135744, AL133371, AC009247, AL034429, Z82190, AF031078, AC004150, AF030876, AC002115, AL132987, AP000088, AC006121, AC005300, AL133245, AC007541, AC003950, AC004825, AL035703, AC009044, AL133233, Z84496, AC002470, AL022313, AC007308, AC006487, AC002558, AL022163, AC002425, AC004821, AC006455, AL022322, AC006273, AP000432, AL050318, AF111169, AC007878, AP000513, AL049869, AL096699, AC007066, AC005821, Z98044, AL031680, Z83819, AC005520, AP001052, AL031780, AC005625, AC007664, AC005871, AC006312, AF002223, AL031597, AC002477, AL031005, AL031846, AC005255, AL021546, AC005060, AP000030, AC006538, AC005067, AC005839, AC006023, AC005232, AC008249, Z93020, AC002543, AL035683, AC007546, AL020997, AC005527, AC005484, AC005881, AL021391, AC005841, AC006111, Z84480, AB017602, AC005399, Z82198, AC005940, AC004228, AL035079, AC004796, AC005326, AL008635, AF001549, AL139054, AC005304, AL034417, AL121653, AC005237, AL079342, AC004750, Z82097, Z99128, AC005924, AF108083, AC000118, AL133163, AC005412, AC005920, AC005568, AL109980, AC004841, AC005546, AC004662, AP000049, AP000116, AC002472, AC008122, AC004832, AC003684, Z85987, AC004686, AF053356,

HCFC57	368	577375	1 - 390	15 - 404	Z93023, Z93096, AC012384, AC006241, AC005231, AC004024, AC002310, and AC006042.
HCFC68	369	753089	1 - 276	15 - 290	AW341274, AI458691, AI802196, and AA937243.
HCFC94	370	670538	1 - 431	15 - 445	AC005776.
HCFC44	371	883973	1 - 396	15 - 410	AC009731.
HCFC47	372	894415	1 - 382	15 - 396	AI086865.
HCFC47	373	720400	1 - 267	15 - 281	AC003072.
HCFCJ21	374	671028	1 - 179	15 - 193	AI472536, AL119457, AL042382, AW117919, AI625464, AI400725, AL041150, AI824576, AA911767, AI927755, AW265004, AI932915, AI554343, AI345416, AI345612, AW084425, AI345415, AI611348, AL042544, AA833760, AW161156, F27788, AI073952, AI280670, AL079794, AA603709, AI174394, AW022682, AL079960, AI874151, AI924686, H42825, AW163823, AI886022, AI932638, AI568114, AL038445, AI433206, AI866770, AI969655, AW080402, AW022699, AI954504, AI627880, AI523827, AI284484, AW268243, AI382201, AL120921, AI251221, AI345608, F35882, AI868204, AW148356, AI470651, AI269862, AI699011, AW167918, AW078800, AI345471, AI886753, AI866082, AI866741, AI784230, AI334450, AI916419, AI783861, AW193134, AW193203, AL119399, AL036638, AI494201, AW021588, AI800341, AI310332, AL037454, AL036403, AI249946, AW268220, AA814990, AL036215, AI648684, AI470293, AI521594, H89138, AI677824, AI582483, AW148716, AI866798, AI860897, AI382670, AI863321, AW089275, AI335426, AI348777, AI919500, AI352326, AI866127, AW168485, AI345148, AI627745, AI241923, AI624293, AI680498, AI280607, AW302988, AL120736, AI698391, AL121328, AA807088, AI623682, AI682652, AI613548, AI890907, AI284131, AI434453, AI628833, AW189415, AW168031, AW169653, AI344785, AL036214, AW167086, AI620284, AI582932, AL134999, AI469738, AI343059, AL040241, AW302854, AI280747, AA761557, AI799195, AI623622, AW152469, AI866469, AW149925, AL036396, AI358213, AI573026, AI349933, AI349004, AW162194, AI539028, AI348897, AI590423, AI310155, AA848053, AI345253, AI344935, AI934039, AI687065, AW090393, AI343091, AW150794, AI345677, AW058233, AI866820, AI358701, AW169604, AW149227, AI926878, AL110306, AI862144, AI583308, AI811684, AI889168, AI554821, AI568132, AI470648, AW196105, AW193872, AI473598, AL046926, AL041772, AI367210, AI783504, AI929108, AI335209, AW073697, AI567351, AI446092, AI678480, AA983883, AI921386, AI698401, AI266436, AI689420, AA830821, AI288285, AI890806, AW050578, AI589267, AI685211, AI306705, AI955906, AI345746, AI612885, AW167448, W33163, AA494167, AW023859, AI590686, AI950664, AW192052, AI561132, AI637748, AL036673, AW089572, AI954422, AI680389, AI471361, AW051088, AI696969, AW172723, AW162071, AW059713, AW271119, AL038605, AW162189, AW020693, AI038565, AI371228, AI580674, AI344928, AL042440, AL037030, AW088134, AI349798, AA910956, AI680377, AI633477, AI680457, AI249962, AI288050, AL036718, AI587606, AI431424, AI686631, AI468872,

					AL119863, AL047387, AW268261, AW277066, AI889147, AW088903, AW151714, AW189270, AL048644, AW129230, AF008439, I26207, I48978, Y11587, AL137292, AJ242859, AL137560, AI2297, U35846, AL137429, Z72491, AF125949, A08916, AL137521, AL137476, A08910, I89947, A08909, A08913, I00734, AF113019, AF090934, E00617, E00717, E00778, AF079763, X65873, AL137556, AL049314, AF158248, AL137283, I48979, AL080158, AF111112, I89931, U49434, I33392, AL122098, I49625, AF100931, AL117585, X93495, AR038854, AL137273, AF028823, AF153205, AL117578, AF090903, A08912, AF177401, AL050138, X63574, AL137463, S61953, AB019565, AF113694, AF162270, A08908, U58996, AF017152, AL122049, AL049300, U96683, AL133568, AF146568, AF078844, Z37987, AF061795, AF151685, AL110225, AF104032, X81464, AL049466, AL133640, AL137271, I42402, U35146, AF183393, A93350, A03736, X83508, AF067790, L19437, Y16645, AL137557, AF118070, AL110196, A77033, A77035, AL049382, AF111851, AR059958, AL133075, AF090900, L31396, I66342, AL117440, S68736, AL117435, AF079765, L31397, AL050277, X72889, AF003737, AF113689, E05822, L30117, I09499, AF090896, AL080124, E02349, AL117583, AF176651, AF111849, Y14314, AL137533, AL080074, AF081197, AF081195, AR020905, AF026124, E15569, AL050108, AL137527, AL049464, AL117432, AL133565, AL133606, E02221, AF119337, AL133645, M30514, AL122111, AL110221, S78214, AF185576, S79832, AF139986, AL137480, AF022363, AF032666, AF000145, AL122123, D83032, AR011880, AF113690, AL133067, E03348, Y10080, AL117649, AF000301, A07647, AL133016, AL133077, AL137488, U42766, X53587, AR000496, U39656, AF159615, X84990, AB007812, A45787, U68387, AF113677, I09360, AF113699, X70685, AL137550, AL133014, U80742, AF090901, AJ006417, AL122110, AR038969, AF118094, A65341, AL137478, AL049452, AL080159, AF132676, AL133081, AF061836, AL137538, AL050116, AF125948, AF113676, AL096744, AL122118, U78525, AL122093, AL050393, A18777, AL122121, AJ012755, AR013797, AF017437, AF067728, I03321, AL049283, E06743, U67958, AJ000937, AL133080, AL122050, AF087943, AL049430, AR029490, AF210052, AL133665, AL117457, AF106657, AL080148, AL137294, E12747, AF106862, AF057300, AF057299, AL133560, A93016, AL080086, S75997, X82434, AL050024, AF118090, Z82022, AL117416, E07108, Y09972, E08631, U00763, Y07905, AL050092, AL133072, AL110222, AF061943, AL133098, X92070, AF113013, AL117394, X96540, I41145, AL080060, AF100781, AL137526, AF118064, AL133093, E04233, and AJ238278.
HCFCM12	375	970835	1 - 846	15 - 860	H05227, AL134081, AI908615, and T79353.
HCFCN66	376	850422	1 - 422	15 - 436	H79453, AA053463, AA302978, AI310992, AI300818, AI619994, AI962030, AW083934, AW008074, AW270768, AI446205, AA480486, AA469230, AA486277, AW083678, AA176604, AA862029, T93109, AA228778, AI267884, AA302661, AI653776, AL039309, AW082104, AI250552, AI251034, AI185394, AI254770, AI284543, AI054090, AA501655, AA515351, AI915081, T94072, AI309059, F17537, AI583291, AI078409, AA904211, AI291037, AI567676, F32248, AA683069, AI251284, AI251203, AI223626, AI249853, AI421755, AW242031,

AA487209, AI271762, AA354695, AI049504, F35684, AW195271, AA420703, AW105729, AW192518, AA429481, AA541532, AW073934, AI310343, AW194046, AA135761, AI889579, AA410788, AW277174, AI216151, AI366555, AA573000, AI050076, AA553594, AA728894, T48723, AW341882, T47075, AI082510, AA669961, AA664126, AA568314, AA745628, AA513884, AW419389, AA579184, AA525253, AI251241, T41134, AW302017, AW023111, AA484892, AW089950, AW341955, AI278972, AA704393, AI356440, AI306717, AA768179, AW327751, AI521019, AI984168, AA947370, AA349606, F23262, AI254779, AA365586, AI929531, R67701, AI872229, AA599710, AI268818, AI471455, AI340832, AI031759, AA738014, AA721645, T93105, AA278496, N71619, AA715351, AA728861, AI572680, AA493840, AI300054, AW169038, AI049722, AF111168, AC005280, AL050321, AL049843, AF003626, AL133246, AC004834, AP000030, AC007510, I34294, AP000556, AL022333, AC005015, Z98051, AL031985, AL022326, AC004491, AC005696, AL031280, AC005327, AC005005, AL035587, AC005841, AC006275, AL031121, AC004552, AC004623, AC005288, AL008726, AC004990, Z69719, AC003098, AP000354, AP000298, AB001523, AC006241, Z68276, AF039907, AL133245, AP000252, AC005031, AC005839, AC005559, AL133448, AC000353, AP000212, AP000134, AC004999, U80017, Z85996, AC005914, AC004254, AC003688, AC005037, AL139054, AL096701, AC006288, AC005632, AF001549, AP000044, AP000112, AL096775, AC002381, AC002401, AC007731, AC005261, AC005500, AC005901, AP000691, AC007688, AC007690, AC005902, AC008154, AC006597, AL035413, AC006487, AC006539, AC006370, U81031, AC000028, AC002375, AP000692, X54156, U94788, AL021155, AC007565, U73330, AL022398, AC007421, AL008730, AC005231, AC007766, AC006511, AL034395, AC003962, Z97056, AC004973, AC002472, AC002477, AC002119, AC006450, AC006042, AC006468, Z69917, AL049873, Z98885, AC005972, AL109613, AC005788, AL031393, AC005913, AF045555, AI246003, AC004462, AC004796, AP000688, AL050318, AL031588, AL035652, AC004878, AC004856, AC003007, AF064866, AC009247, AC007225, AL031255, AC003690, AC005365, AL031229, AC006538, AL031685, AC006116, AP000512, AC004150, AL008719, AC006544, AC004659, AC004771, AC004643, AC007686, AL121754, AP000501, AC004752, AF047825, AF053356, AP000300, AL080317, AC004103, Z84469, AP000116, AC005800, Z82208, Z93017, Z98047, AL133355, AP000151, AL049780, AL008720, AP000511, AL049631, AC007243, AL034420, Z96074, Z82244, AC003071, AC005004, AC007312, L77570, AC007546, AC006455, AL035089, AC002288, AC005207, AC005520, AL121655, AL109799, AL021808, AC002312, AC007664, AC005828, AC004590, AC008989, AC004033, AC005874, AF134471, AL035455, AC004983, Z97989, AC007226, AP000152, AC007429, AC002527, AF064857, AC003043, AC008064, AF001550, AC004797, AL035695, AC005736, AC003667, AC002492, AC011456, AC002565, AC005220, AC004966, AC005778, AC004019, AC008045, AC004814, AC006084, AL121603, AL024498, AC005324, AP000113, AP000045, AC005837, AC005777, AC002563, AC005239, AC008044, AL031667, Z93241,					
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HCFCN81	377	576871	1 - 581	15 - 595	AL078581, AC004851, AL031663, AL031282, AL009181, AC000025, AC004650, AC005180, AC004859, AC006464, AP000115, AC002476, AC006101, AL117354, AL031284, AC005535, AL133312, AC002390, AL031848, AC006537, AC006271, AC005723, Z83840, AC004707, AL034402, and AC008372.
HCFCP14	378	577277	1 - 318	15 - 332	R13709, Z44811, and AA084016.
HCFCP31	379	764750	1 - 431	15 - 445	AL043121, H26563, AA774273, and AA480145.
HCFCR76	380	862682	1 - 552	15 - 566	AL033547.
HCFCX73	381	575988	1 - 349	15 - 363	H80303, AI809174, AC005091, AC004671, AL031283, AC020663, AL034417, and AC002527.
HCFCB13	382	576709	1 - 325	15 - 339	
HCFFD48	383	720938	1 - 363	15 - 377	
HCFFE10	384	961270	1 - 411	15 - 425	
HCFFE19	385	671507	1 - 550	15 - 564	AA126608, and AC003959.
HCFFE79	386	575996	1 - 350	15 - 364	
HCFLC28	387	968304	1 - 344	15 - 358	
HCFLD28	388	850564	1 - 517	15 - 531	AW294229.
HCFLD78	389	773685	1 - 659	15 - 673	AA284537, AI161251, AA703386, AI144156, AI080716, T95314, H44601, R54003, R53410, AA707567, T95396, AI863960, AA705879, AA444145, AA443965, AL045360, AI819631, AI862146, AL119399, AI336575, AI289542, AW020397, AL043168, AI253379, AI620056, AW162194, AI698391, AI633125, AA587590, AW051088, AL046466, AW151893, AI638644, AI345415, AI890907, AI345612, AI590043, AI589428, AL042382, F27788, AL037454, AI800341, AA806719, AI345416, AI565172, AL043152, AI679550, AI567582, AI802542, AL042544, AI500061, AW089844, AW274355, AI884318, AL079794, AL119457, AI929108, AI637584, AI889189, AI470293, AL041862, AW152182, AI345688, AI923989, AI567513, AW051059, AW007309, AI479292, AI538850, AI866469, AI890391, AI538764, AL036187, AI817523, AI702073, AI473536, AL119324, AI433500, AI499890, AW129264, AI636588, AI540458, AI954183, AW129659, AI673363, AL040241, AA808175, AL110306, AI267162, AI432644, AI870192, AI969655, AW301344, AL038505, AI254814, AW059766, AA580663, AI446775, AI567769, AI469425, H89138, AI491710, AI270183, AI690813, AI433157, AI589134, AW021717, AI539800, AL119511, AI538885, AW022300, AL046618, AI282679, AW104056, AW021178, AL037582, AI245008, AL037602, AI540674, AI685080, AA975952, AW079572, AC008151, AI146191, AC005968, AL050309, AC007458, AL050322, Z82206, AL050306, AL031732, AC005296, AC007392, AC007298, AC002464, AL035258, AL031904, U95739, AC018769, AC018767, AC002287, and AC009286.
HCFFE44	390	576679	1 - 339	15 - 353	
HCFFE95	391	945122	1 - 576	15 - 590	AI697165, AI434288, AA642239, AI818876, AA970105, AI271514, AI571352, AA411035,

HCFLP96	392	579039	1 - 330	15 - 344	AI371320, AA865735, AA134979, AI133257, AI536699, AW248707, AI198061, AW182002, AI261681, AI991804, AA344380, AI810573, AI685434, AA293139, AI699206, AA652700, AI688845, AI458014, R60967, AW007141, AA419241, AI089210, AI369965, AA489594, AW383812, AI739141, AC004707, and D13623.
HCFLG84	393	711243	1 - 425	15 - 439	AA978266, AL049780, and AC007055.
HCFLI49	394	722269	1 - 525	15 - 539	AA312278.
HCFLJ40	395	576068	1 - 324	15 - 338	
HCFLP31	396	698139	1 - 460	15 - 474	
HCFLR55	397	576043	1 - 243	15 - 257	Z84475, and AC006924.
HCFLR83	398	576054	1 - 576	15 - 590	AL043019, AL042433, AI142132, AW372827, AL134902, AI142137, AL134524, AL119401, AL119443, AL042450, AI142139, AL042896, AL079687, AL039912, AL134525, AL119522, AL119396, AL042978, AL042544, AL042614, U46351, AL134536, AL042965, AL042975, AL119418, AL037205, AL042984, AL042542, AL119464, AL043033, AL043029, AL042551, AL119511, AL043003, Z99496, AR069079, AR043113, AR066494, and AR060234.
HCFLT42	399	576040	1 - 396	15 - 410	AA281808.
HCFLU12	400	970849	1 - 506	15 - 520	AL096816.
HCFLW58	401	964870	1 - 513	15 - 527	AA082673, and Z36960.
HCFMC42	402	670519	1 - 437	15 - 451	AI040051, AW438542, AI824541, AW021917, AI130647, AI004591, AI270476, AI061313, AA225044, AA878140, AW265090, AA582554, AW167154, AW103383, AI623563, AA862243, AA653139, T50676, AW105729, AA665181, AA610509, AI821044, AL039187, AI590458, AW302048, AA570740, AA483606, AI275183, AA955031, AW075132, AA568204, AI536625, AA658844, AA574442, AI745473, AA879053, AI598003, AA601278, AI559645, AA528480, AA664604, AI292236, AA528390, AA613627, AI590499, AI338426, R94354, AA121777, AI276298, AA191418, AA970967, AI017251, AI791659, AI753365, AI859280, AA598545, AA579566, AA224995, AA584482, AI654285, R94288, AA347114, AI244356, AA581460, AA572685, AW161636, AA618316, R96643, AC005822, U50871, M87914, AC006512, AI035588, S42653, AP000555, AJ131757, AC005399, AL049872, AF053356, AC005341, Z99716, AC005529, AC005057, AP000212, AF196779, AC005778, AL109623, AC005747, AC005899, Z69917, AC006965, AC002470, Z95114, AF134726, AL022069, AC005089, AC005907, AC004408, Z98884, AL022313, AF045555, AL009181, AC005971, AC005041, AC006480, AL049557, AI021978, AF187320, AC009498, AP000512, U85195, AI109952, AP000552, AC007685, AC007227, AC005391, AC007421, AC005288, U47924, AE000658, AL008726, AC006013, AC005588, AC002558, AC005225, AL139054, AC006600, AC004975, AL034555, AC005746, AC005484, AL121694, AC003665, AL035072, Z82901, Z82214, AL050308, AC006953, AC005082, AB022537, AC004099, Z97056, AL034420, X84664, AC007052, AC007686, AL034548, AI033521, AC004386, AC005562, AI096776, AF196969,

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HCFMD15	403	975075	1 - 657	15 - 671	
HCFMD23	404	676003	1 - 324	15 - 338	
HCFME27	405	576815	1 - 423	15 - 437	AL031283.
HCFMF47	406	973243	1 - 567	15 - 581	
HCFMF64	407	773342	1 - 812	15 - 826	AA243815, AW173441, AW173520, AA354361, AW082254, AI628870, AI936417, AI640772, AW293620, Z32860, AL049667, and AL022398.
HCFMG14	408	576063	1 - 354	15 - 368	
HCFMH12	409	970843	1 - 457	15 - 471	AI446464, AI284640, AA649642, AA515435, AW440976, AW236342, AI264743, AW383634, AA350859, AI623696, F32894, AA483034, AI273185, AI688846, AI205126, AA318652, H64777, T63104, AA470985, AA365347, AA558697, AA535661, AI053672, AA886584, AI064864, AA077817, AI471481, AI910609, AI251002, T07287, AA557879, AW193265, AW383542, AA605274, AA747472, AA513999, AW193432, AI334443, AW088058, AA593060, AW089810, AW272758, AW438643, AI350211, M62249, AI830390, AA177061, F36273, AI110770, AA601892, AI648558, R13151, AA229785, AI832782, AW276827, AI824562, AI590689, AI590958, AA714453, AW338086, AL046409, AI040313, AI608626, AF150152, AA331025, AI085719, AA368936, AI049722, AI281881, AW383608, AW383628, AA328591, T06556, AW383440, AA369477, AI431303, AW383586, AA720702, AI282336, F19012, AA364224, AW406447, AI986251, AW029038, AW383605, F24284, AA593247, AW383624, AI962050, AI341664, AW383606, AI281903, T40077, AI286356, AA653221, AL120674, AI537955, AW261871, AA252763, AI287528, AI653905, AI367401, AW419262, AI367420, AI890923, AI352078, T08638, F37169, AI291124, AI499938, AW272641, AI687962, AA366820, H15679, AI049940, AA300016, AW272925, AW339568, AI929531, AI805380, AI418327, T40338,

AI702095, AW151896, AL041690, AI133164, AI186470, AI720431, AI148245, AI291268, AI358571, AI684208, AI340453, AW249835, AW383455, AW383629, AA084070, F18974, AI431232, F31204, AI287651, AI537030, AI753567, AA632407, AI677668, F33511, AW082063, AA587604, AA704147, AA679672, AW276172, AA719805, AI282832, AW166815, AW168342, AW025031, AA441788, AA626404, AA491762, AA745410, AI434695, AW162049, AA443695, AI613280, AI754955, AI623898, AI339850, AI339440, AA338522, AI287451, AI133636, AI567674, AW406162, AI367471, AI801591, AI270117, AA515051, AI364020, AW022379, AA365302, AA079101, AA572975, W79504, AI341548, AI679782, T07451, AA100372, AA526779, AI904894, AW338292, AI354587, AI917271, AI281465, AI252554, AI538928, AA102047, AI613473, AI268812, AW383596, AA977743, AI079812, AW274349, W47444, AA664535, AA321311, AW023672, AW270270, AI371070, Z93784, AI049869, AC003983, AC004933, AC007056, AC005220, AL031846, AL035071, X87344, AC000067, AL035667, I51997, M87916, AL022324, AC006062, AC006965, AC006055, AL096867, AC004947, AC006212, X75335, Z84476, AB000882, U57005, U18393, AC004878, U18394, AL050308, X55928, U18390, X55932, AC005013, S70697, AC005251, X54180, AC005909, U57009, U57006, AC007126, AC005962, U91324, AL078463, U85195, S75337, M87919, S70694, AP000567, Z98256, AL032821, U02054, U02063, AC005348, AE000658, AL096773, AC004638, X55925, AC004963, AL133246, AC005015, AC005389, AF003627, AC004896, AC005246, AL034548, AL035681, S70707, AF147277, U18392, U02058, U18391, AC006925, AL031680, AC006370, AC004158, Z98946, AP000431, AB003151, AP000688, AC005502, AC002119, AC004537, AF196779, U18395, U14719, AL109733, D83989, AL049636, AC005207, AC005915, U14701, U14695, U14705, X55924, AP000346, U14699, U14702, U14710, U14685, U14686, U14689, U14691, U14692, U14707, L81648, AL021453, AC006057, AC005145, AC005297, AL049710, U14718, AC005023, AP000302, Z68165, AC004815, AC007919, X55930, AC003029, AC002056, AC006210, Z84474, AF090944, AF077058, AC006336, AC005019, AC002366, AL031311, X55926, AL133238, AL049835, AC004381, U18398, AC004890, U14708, U02048, AP000114, AP000046, AC005581, AC000124, U14703, U14688, U14687, AL035407, AC005544, AC005341, AP000193, AC007100, Z30993, AL121603, AC006417, AC004220, AF038458, AL008728, AP000050, AL031257, X55922, AF015156, AC007384, AF053356, AL049776, AP000311, AC005696, AC004222, AC006996, Z94277, AC005082, Z49816, AL008718, AC003013, AC007792, AF015147, AP000117, AC006241, AL008723, AC005971, AL078624, AP000017, AP001053, X54175, AL031347, AF161343, AL008709, AC003007, AL080242, AC005284, AC005763, AL008635, U63721, AC005552, AC004496, AL031589, AC008119, AC007421, AC006596, AF029308, AL022476, AC006026, AC005873, AC006536, U14700, AC004668, AC002086, AL080285, AL031770, AC004859, AC005332, U14684, U14693, AC006511, Z99754, AF111169, AC005575, U18396, AL121653, AC005699, AF094481, AP000557, AC020663, AB020859, AC005003, AL022394, D42052, AP001043, AC004895, AL035494, AC005412,					
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HCFMJ70	410	576096	1 - 342	15 - 356		AA493118, and AL135744.
HCFMK25	411	576081	1 - 256	15 - 270		
HCFMK27	412	576094	1 - 361	15 - 375		AC006388.
HCFMK49	413	576098	1 - 409	15 - 423		
HCFMK62	414	576097	1 - 423	15 - 437		AL031594.
HCFMK63	415	506251	1 - 365	15 - 379		
HCFML42	416	576667	1 - 451	15 - 465		
HCFMM81	417	506250	1 - 468	15 - 482		AC006406.
HCFMN07	418	953522	1 - 150	15 - 164		AC006978.
HCFMQ64	419	805822	1 - 664	15 - 678		R16166, AW245400, AI092564, AI298418, AI190180, AL135607, AA255476, AW341937, AA774687, AA232248, AI675174, AI356983, AA770006, AI500630, AI200144, AI339987, AW071871, AA350500, AA732754, AI086463, AA055479, AI080604, AI591153, AI090505, AI090526, AI619931, AI151262, AA765701, AI015327, AA173394, AA257977, AI857270, AW058653, AI858857, AI743631, AW131669, AI361482, AA171810, AA621676, AW072043, AA159603, AA165670, AA357206, AA070895, AI083788, AA643264, AA699650, AA373130, N29760, AW248832, AI401838, AI696781, AA086047, AI829320, AA232744, R44869, AA133807, AI089956, F09118, AI352487, AA369978, AA486761, AA182536, AA128868, AI699007, AA134215, AA977086, AI885043, AA232537, AA954867, AI086697, AA256882, AA457397, AA865872, AA757809, AA811925, AW377769, AA805830, AW006314, AI758593, AA045484, AI246878, AA421465, AI679033, AI587487, AI572423, T30157, AA515407, AW193414, AW085830, AI672912, AW196633, AA527495, AA568558, AA026270, AA594129, AI569433, AA864390, F03978, R51276, AW304405, AI017824, AI061053, AI074649, AW009091, AI560098, AA999878, AI888289, AI097160, AI587320, AW002779, AA725226, AI559525, AI017407, AI741332, AI911638, AI685232, AI890180, AW295035, AI991285, AW084565, AI859307, AA947282, AI090794, AI744955, AW182337, AA844680, AA535324, AI014459, H28345, AA357685, AI143713, R35871, AW129646, AA457115, AW044140, R67967, R26888, AI660218, M79078, AI742893, AI436778, AI718841, AW292472, AI818656, AA421496, AA664765, AA621134, AI719132, H65810, N74909, AW087942, AA457447, and AI811113.
HCFMT62	420	954213	1 - 560	15 - 574		
HCFMY85	421	933017	1 - 298	15 - 312		AC006479.
HCFMZ17	422	664132	1 - 475	15 - 489		AW362709, AF165294, AJ012376, and AF165281.
HCFNA30	423	772262	1 - 129	15 - 143		
HCFNB62	424	576446	1 - 336	15 - 350		AW002831, R69527, AA713735, AL118925, AA808982, AA745302, AA335519, AA429481, AW381847, AW381904, AA714073, AA364006, H43183, AA496309, AA577141, AA192366,

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			1 - 693	15 - 707	AC005999, AL031012, AL078602, AC002485, AL022164, AL031429, and AC005539.
HCFNK43	425	973548			
HCFNO55	426	576008	1 - 359	15 - 373	

HCFNQ04	427	615351	1 - 888	15 - 902	T57391, N26420, AW340665, AI827647, AA280976, AA521364, AW340711, AI217472, AA429950, AW274378, AW340146, AI970154, AA906042, AI290997, AW188032, AC006208, and AJ003081.
HCFOB11	428	967196	1 - 126	15 - 140	AA648299.
HCFOE38	429	576005	1 - 302	15 - 316	
HCFOP90	430	561625	1 - 529	15 - 543	AI801107.
HCFOG82	431	576007	1 - 380	15 - 394	AA229738, and AA229023.
HCFOH56	432	577114	1 - 385	15 - 399	T71466.
HCFOI11	433	967195	1 - 316	15 - 330	AI066646, AI375684, AI755202, AI720301, AW130427, L42230, AC002128, AC005808, AC005327, AI031965, and AC008994.
HCFOL96	434	796104	1 - 482	15 - 496	Z30202.
HCFOO18	435	575965	1 - 387	15 - 401	
HCFOP42	436	460824	1 - 537	15 - 551	AA480486, AA469230, H81700, AA468356, AA502532, AW238495, AA018923, AI537800, AI609972, AA021561, AA768179, AA608561, AA362349, AA229159, AW392414, AA857812, H86221, AA429481, AA829036, AI267356, AA728861, H99700, AI279417, AA610233, AA773881, AA599080, AI648514, N91711, AI738863, AA558404, AI459733, AA715351, AA601680, N41775, AI267450, AA601212, AW302017, AI185394, H84412, AI471455, N70449, AA564925, W28961, AI280535, AA573000, H24957, AI340858, AI718323, AA376896, AI687343, AW440368, AA654482, F00688, AA351808, AA197019, AI583466, AI306232, AI251576, AA302661, AA297443, AI340700, AA302978, AA629852, AA228979, AI929796, AI933716, W63553, AA457754, AW328331, AA229823, AI253376, AW188742, AW150781, AA946848, AA507675, H67064, AA019003, AW328330, AI932871, H59651, N28624, AI306717, AL137946, AW274191, AA610381, AI249365, AL041375, AA362348, H58293, R69819, AI282629, AI249688, AA515168, AA648569, AC005318, Z95326, AL035088, L44140, AC007993, AC004859, AL133163, AC007056, L77570, AF130343, Z81007, AL080243, AP000503, AL021707, AB002345, AC004856, AF134726, U73644, AC004638, AC004985, AC000003, AC005005, AC005632, AL109967, AL008719, AC002306, M87889, AC006512, AL035400, AL034553, AC004646, AC005768, AC002985, AF207550, AF111168, AC004525, AC006455, AF111169, AP000348, AC005225, AP000349, AL023883, AC004587, AC005189, AC005696, AL096678, AC002350, AC004167, AC002064, AC003108, AC005027, AL023655, AC005569, U96409, AL109758, AC005207, AC005004, AC005071, AL022326, AC003007, AL031584, AP000350, AP000343, AP000555, AL022718, AC006050, Z94801, AC007057, AL049872, AC004817, AC002400, AL049569, AL009050, AC006017, AC005480, Z85987, AC009300, AC006315, AL121757, Z83820, AJ009610, AP001060, Z68285, AP000362, AC006948, AL118497, AL022316, AL096791, AL034555, AC005952, AC007308, AC004030, AF053356, AC002470, AC006013, AP000354, AC007684, AL031685, AC002302, AB015355, AC006509, AL035448, AC006360, AL121653, AL035458, Z70280, AC004967, Z95115,

					AL049540, AP000229, AL034420, AC002310, AL117337, AC005483, AC004855, AL121603, AL133500, AF141308, AL034374, Z97989, Z47046, AB020878, AL049759, AC005386, X58139, AF227510, AC007314, AC005666, AC004832, AC006207, Y10196, Z98257, AL031228, U91318, AC005907, AC004134, AC006121, AC003982, AL031846, AC002365, AL034429, AC005730, AF205588, AC011718, AC008079, Z99716, AC004961, AC008273, AC004895, AL035405, AL031587, U82828, AF042090, AL008716, AC005244, Z84572, AC004408, AL035587, AC002504, AP001068, AC007773, AL009181, Z93017, AC008132, AL031277, AC007160, AL049776, Z83856, AC002365, AL035086, AC007325, AL031651, AL121658, AC007981, AC007685, Z69707, AL008718, AC009516, AP000500, AC004929, AC005837, AC004821, AC009721, AC006071, AC006064, AL049856, AC003077, AP000695, AP000694, AF172277, AP000553, AC007546, AL021453, AF001550, Z84469, AC006262, AL034369, AC004808, AC003957, AC004933, AC005940, AC004857, AC004890, AC002524, AD000812, AC007386, AL022323, AC004996, AL031659, AC005399, Z96074, AC006111, AL133382, U62317, AC006453, AC002559, AC002312, AC005519, AC000029, Z83841, AC004222, AC004033, AC007099, AC007350, AC002395, AC005102, AC007790, L81577, AC005186, AL096701, AL133245, AC018633, AC004039, AC004623, AC006026, and AC005344.
HCFOP46	437	927654	1 - 390		15 - 404
HCUAA60	438	670941	1 - 54		15 - 68
HCUAD58	439	738408	1 - 302		15 - 316
HCUAE70	440	959686	1 - 223		15 - 237
HCUAG89	441	706427	1 - 417		15 - 431
HCUAG92	442	504395	1 - 314		15 - 328
HCUAH15	443	916651	1 - 217		15 - 231
HCUAH60	444	916621	1 - 218		15 - 232
HCUAH70	445	574164	1 - 280		15 - 294
HCUAI71	446	959492	1 - 334		15 - 348
HCUAK23	447	676289	1 - 240		15 - 254
HCUAK49	448	574256	1 - 279		15 - 293
					AA502860, AA593267, AA558227, AI446638, F35659, T58118, AL137954, AI963095, H73081, AW028429, AW148792, AL042756, AA487995, AI141675, AI215727, AW438916, AA487884, AI358501, AA579249, AI499094, AW069807, AW085991, AW193609, N27353, AW029280, AI884487, AI676218, AW130535, AI915068, T91187, R80865, AI761471, AI926681, AI860677, AI248679, AA680243, AI625570, AI039451, T65812, N66945, AI625468, AA383838, AA977743, AA629939, AI768952, AI125139, T08074, AA664535, R35972, AL048925, AI928866, AL037574, AA828662, AA339432, Z70688, AC003009, AC006252, AL080243, Z69650, AC005944, AC004167, AC005516, AC004141, AP000065, AC007766, Z84718, AP000351, AC003041, AI049745, AC004253, AC003665, AC005195, AC005668, AL031584, AC005666, S43650,